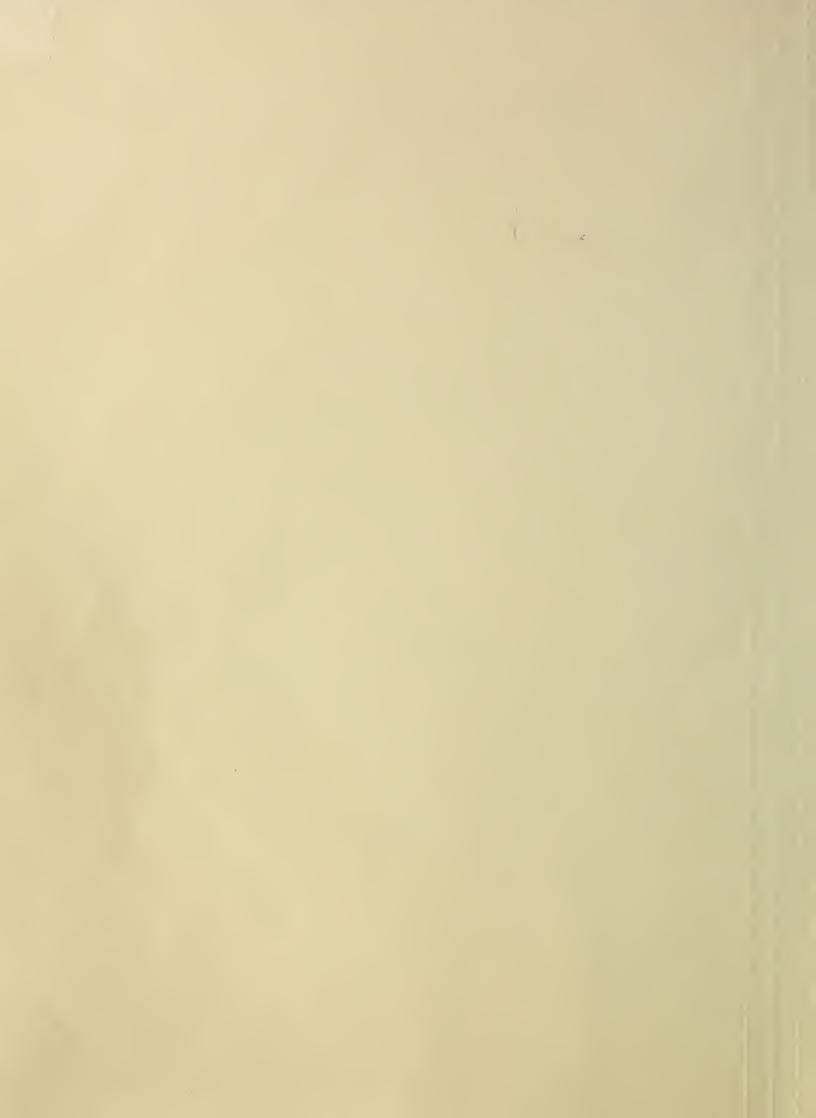
## **Historic, Archive Document**

Do not assume content reflects current scientific knowledge, policies, or practices.





United States
Department of
Agriculture

Rural Utilities Service

Informational Publication 344-2

January 1995

# **List of Materials**

Acceptable for Use on Telecommunications Systems of RUS Borrowers

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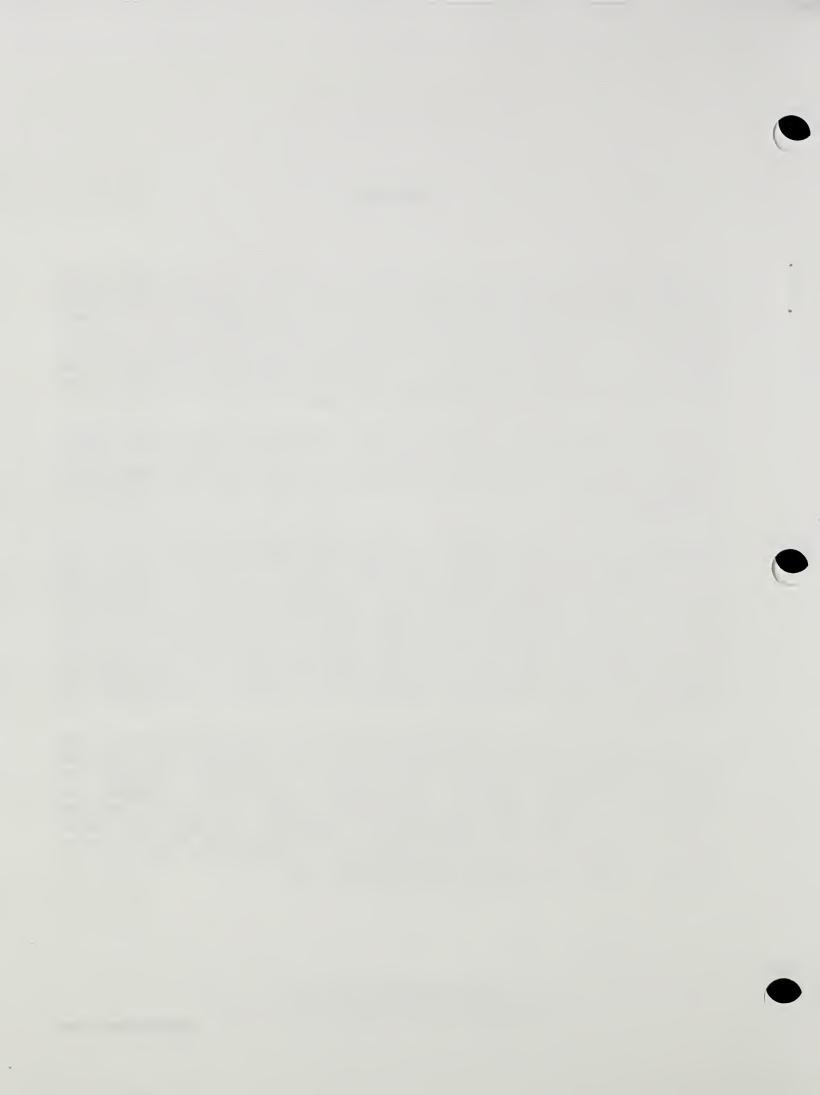
#### **PREFACE**

This List of Materials (Telecommunications) supersedes all preceding issues including supplements of REA Bulletin 1755I-100. It reflects all actions of the Technical Standards Committees "A" and "B" (Telecommunications) through January 31, 1995, and includes changes in listings due to additions, deletions, and corrections made through Meeting No. 677 of Technical Standards Committee "A" (Telecommunications). Supplements reflecting changes in the List of Materials (Telecommunications) will be issued periodically and should be inserted in order to keep your copy up-to-date.

The small letters used to designate many construction items listed herein correspond to the letters used on construction drawings to indicate individual items of material; however, many equipment items have been assigned letter combinations only as a means of identification within the List of Materials (Telecommunications).

The acceptance of an additional item or the deletion of an existing item is a function of the RUS Administrator and Technical Standards Committees "A" and "B" (Telecommunications). Anyone desiring to have a new item placed on the List of Materials (Telecommunications), or believing an existing item should be removed from the List of Materials (Telecommunications), is invited to submit the matter to Technical Standards Committee "A" (Telecommunications). Any communication calling attention to an error, an obsolete item, etc., will also be appreciated. All communications should be addressed to the Chairman, Technical Standards Committee "A" (Telecommunications), U.S. Department of Agriculture, Rural Utilities Service, AG Box 1598, Washington, D.C. 20250-1598.

The inclusion of an item in the List of Materials (Telecommunications) does not indicate that that item's manufacturer or its principals have not been debarred, suspended, proposed for debarment, declared ineligible or voluntarily excluded pursuant to Executive Order 12549, Debarment or Suspension, or any rules or regulations issued thereunder, including 7 CFR Part 3017 ("Debarment Regulations"). Therefore, borrowers must comply with the requirements imposed by the Debarment Regulations before entering into any "covered transaction," as defined by 7 CFR Part 3017, involving any item on this List of Materials (Telecommunications).



## CONTENTS

**MATERIALS** 

INDEX

WIRE AND CABLE

SECTION 1

HOUSINGS, SPLICE CASES, ETC.

**SECTION 2** 

MISCELLANEOUS SPLICING MATERIALS

**SECTION 3** 

LOADING COILS

**SECTION 4** 

**ELECTRICAL PROTECTIVE DEVICES** 

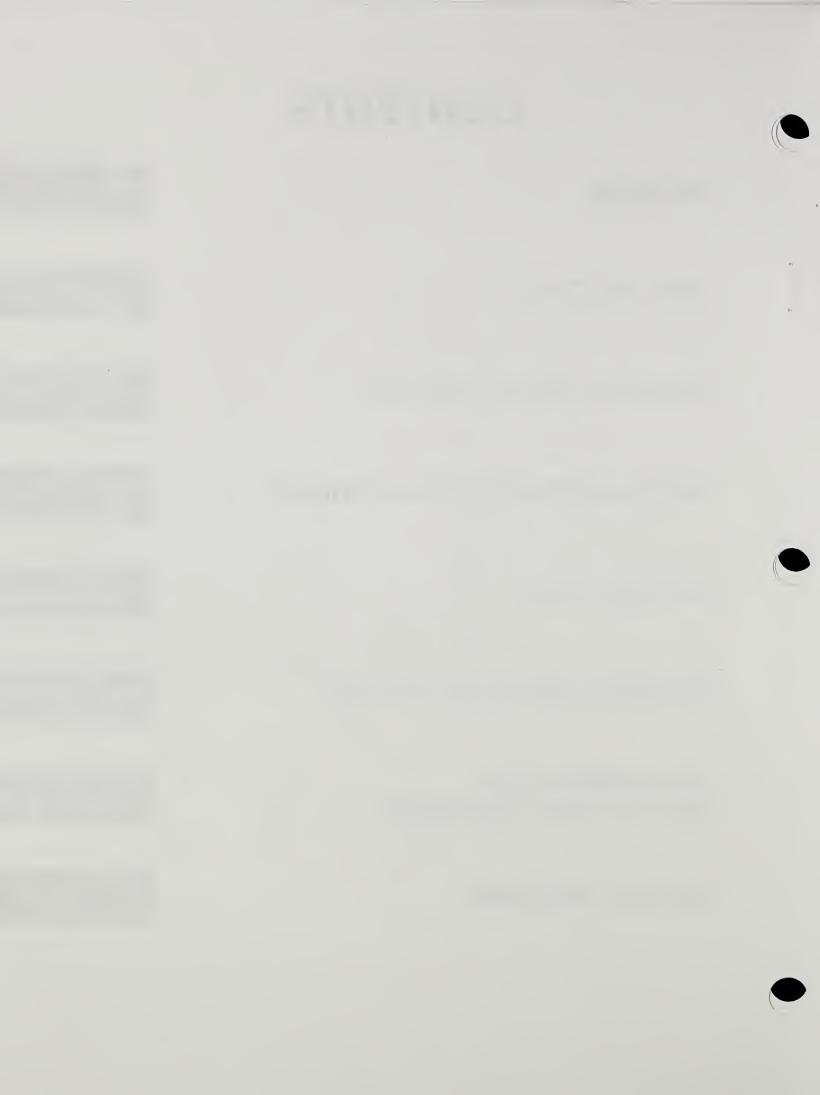
**SECTION 5** 

TRANSMISSION AND CENTRAL OFFICE EQUIPMENT

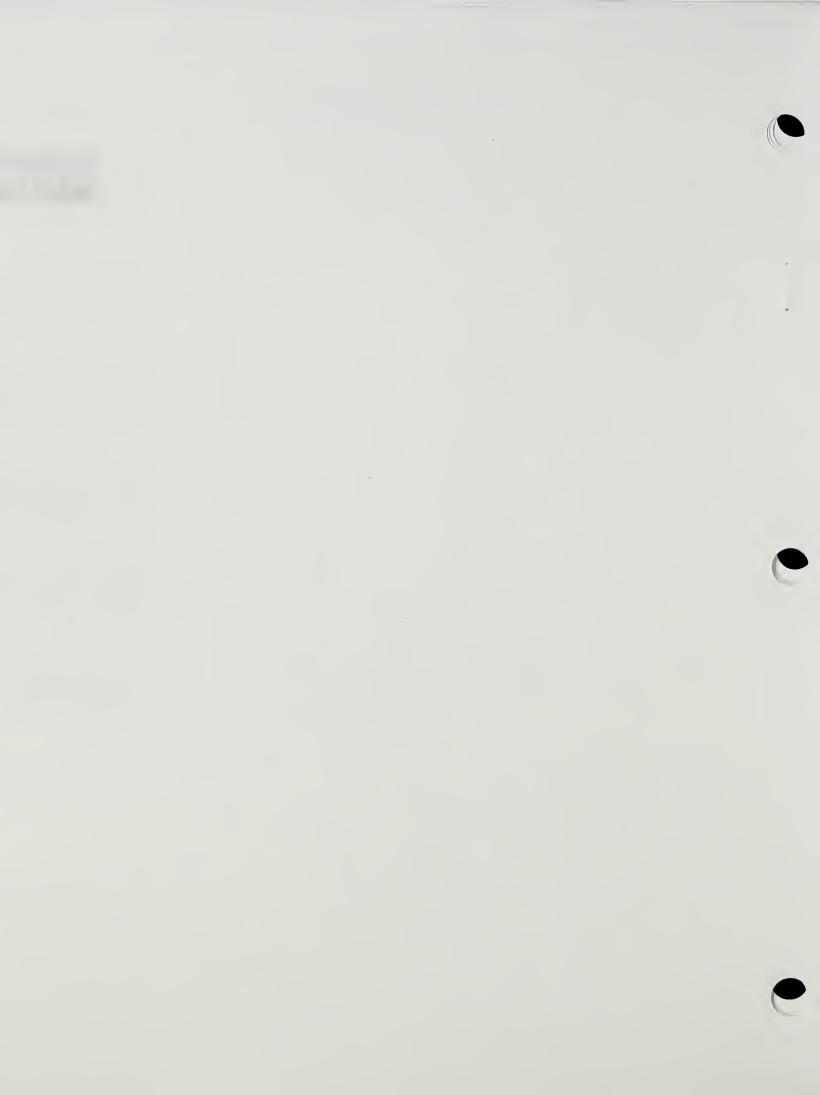
**SECTION 6** 

GENERAL HARDWARE

**SECTION 7** 



# INDEX



#### Index

	rcem	
<u>A</u>	Designation	Page
Anchors, guy - expanding and plate		
	z z	
	Z	
Arresters, gas tube		
" secondary power	gigi	. 5 . 5
_B_		
<u></u>		
Blocks, terminal	sh	5.6
Bolts, angle, thimble-eye		
" machine		
" straight, thimble-eye		
		.,,
<u>_c</u>		
Cable, aerial and underground	nana	.1.1
<pre>" buried (Expanded Insulation-Filled)</pre>	scsc	.1.2.1
"	scsc	.1.2
" fiber optic	ococ	.1.7
" self-supporting	wf	.1.6
<pre>" terminating (TIP)</pre>		
Carrier equipment, digital carrier systems		
Cases (Closures), aerial splice for copper		.2.1
" " " " fiber		
	lespl	
	cablespl	.2.1.1
TIDEL		
	lespl	.2.1.4
underground sprice (main	noie) plpl	2 1 2
" " buildings and central of		. 2 . 1 . 2
3	er cablespl	2 1 2
	coptic	. 2 . 1 . 3
	olespl	2 1 4
Clamps, cable suspension	•	
" drop wire		
" ground rod and pipe (indoors)		
" ground rod and pipe (outdoors)		
Coils, loading		
Concentrators, electronic subscriber line.	epep	6.5
Conduit, underground	<del>-</del>	
Connectors, splicing and cross-connecting.		
	ghgh	
" grounding	me	7.5

E lashed cables.....2.3 strand-mounted, two-branch entrances Equipment, electronic subscriber line concentrators...ep...........6.5 ringing generator.....6.6 G Guards, buried service......7.6 cable, plastic......7.8 riser.....sg......7.8 Guy hooks.....br......7.15 H Harnesses, bonding connector (splice cases, buried housings, ready-access enclosures).....gs.....gs..........3.3 Harnesses, bonding connector (buried bare metal Housings, buried plant Type BD Pedestals (Type H)....se..........2.5 Type BDS Area Interface cabinet.....2.5.2 central office splice......2.5.3 L Lightwave digital transmission systems, .....lt..........6.7 Asynchronous Lightwave digital transmission systems, Synchronous .....lt................6.8 

M

<u> </u>	
Optical fiber cable	
<u> </u>	
Numbers, pole	
<u> </u>	
Pedestal, inserts, restricted access       sk       2.5         Pedestals (housings, buried plant)       se       2.5         Posts, mobile home       sd       2.8         Protectors, mainframe, carbon       nm       5.2         " gas       nm       5.2         " power service, 125/250 volts       gg       5.3         " station, fuseless, well mount, carbon       ni       5.1         " module, " ni       5.1         " fused, well mount       ni       5.1         " fuseless, well mount, gas       ni       5.1         " module, gas       ni       5.1         " module, well mount       ni       5.1         " module, well mount       ni       5.1	
<u>R</u>	
R         Radiotelephone equipment, mobile and fixed (BETRS)rm	
Radiotelephone equipment, mobile and fixed (BETRS) rm 6.3 Repellent, ant ap 3.5 " rodent rp 3.5 Ringing generator gr 6.6 Rods, anchor x 7.1 " ground ai 7.1	ວ
Radiotelephone equipment, mobile and fixed (BETRS)       rm       6.3         Repellent, ant       ap       3.5         " rodent       rp       3.5         Ringing generator       gr       6.6         Rods, anchor       x       7.1         " ground       ai       7.1	0 1 1
Radiotelephone equipment, mobile and fixed (BETRS) .rm	1 1

#### W

Warning	g signs, stakes and numerals, buried plant	.sm	.3.6
Washers	5	. d	.7.14
Wires,	buried service	.sa	.1.4
11	cable lashing	.nw	.7.12
11	drop	.nt	.1.5

#### Index

Item Designation Description Page i.....\* j......Screws, lag......7.14 x......Rods, anchor......7.1 y.....Strand, suspension and guy................7.11 aa.....\* ab......Thimble-eye nuts.......7.14 al.....\* ao......Bolts, straight, thimble-eye......7.13 ar.....\* at.....\* ba......Bolts, angle, thimble-eye .............7.13 bj.....\* bl.....\* bm.....\* bo.....\* btc.....\* cb.....\* cc.....\* cd.....\* Posts, (Concrete) buried plant housings.....\* cm...........Connectors splicing and cross-connecting...........3.1.1 cw.....\* df.....\* False deadends.....\* dm............Permanent cable identification markers......\* dz.....\* ef.....\* em.....\* Extenders, central office loop with VF repeater....\*

<sup>\*</sup>Item no longer listed.

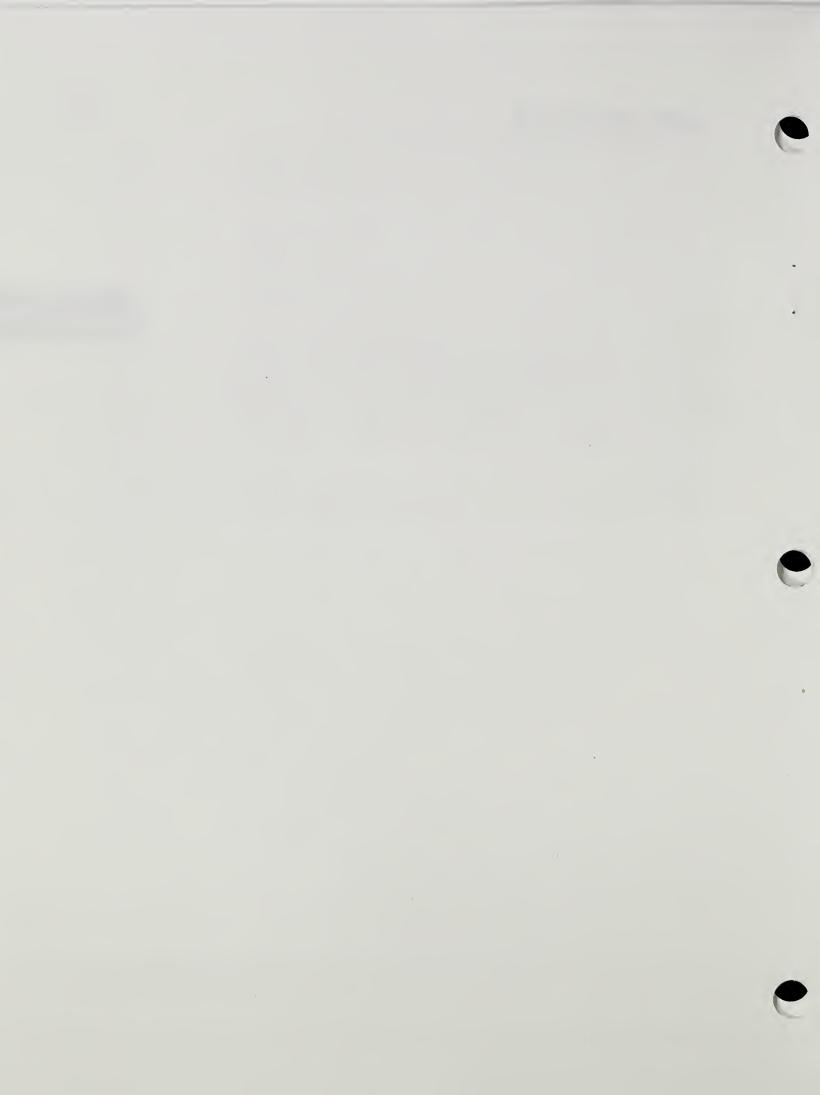
_	.Concentrators, electronic subscriber line6.5
	.Enclosures, ready-access, cable2.3
	.Trunk circuits, electronic*
ex	.Extenders, central office loop*
qf	.Fittings, sidewalk guy*
	.Protectors, power service
	.Connectors, shield bonding
	.Arresters, secondary power
	Equipment, microwave
	.Generator, ringing
	.Harnesses, bonding connector
92	arnesses, senaring connector
hb	.Bend, cast iron*
hc	.Conduit, underground2.2
hd	.Hooks, underground cable*
	.Cap, cast iron*
	.Handholes
	.Irons, pulling-in*
	.Sump, manhole*
	.Plugs, conduit*
	.Manholes, precast
	.Racks, underground cable*
	.Supports, cable rack*
	.Covers and frames, manholes*
110	.covers and frames, maintores
1t	.Lightwave digital transmission systems, Asynchronous6.7
1t	Lightwave digital transmission systems, Asynchronous6.7
	" " " Synchronous6.8
md	" " " Synchronous6.8  Brackets, house*
md	" " " Synchronous6.8  Brackets, house*  Connectors, grounding
mdme	" " " Synchronous 6.8  Brackets, house *  Connectors, grounding 7.5  Drive hooks *
mdmemgmg	" " " Synchronous 6.8  Brackets, house *  Connectors, grounding
mdmemgmgmgmhmimi	"         "         Synchronous6.8           Brackets, house
mdmemgmgmgmhmimjmj	" " " Synchronous6.8  Brackets, house
md	" " " Synchronous6.8         Brackets, house
md	"       "       Synchronous6.8         Brackets, house
md	"       "       Synchronous6.8         Brackets, house
md. me. mg. mh. mi. mj. mk. mm. mo. mu.	"       "       Synchronous6.8         Brackets, house
md. me. mg. mh. mi. mj. mk. mm. mo. max.	"       "       Synchronous6.8         Brackets, house
md	"         "         Synchronous6.8           Brackets, house
md	"       "       Synchronous6.8         Brackets, house
md. me. mg. mg. mh. mi. mj. mk. mm. mo. mu. mx. my. my.	"         "         Synchronous6.8           Brackets, house
md. me. mg. mg. mh. mi. mj. mk. mm. mo. mu. mx. my. mz. na.	"         "         Synchronous . 6.8           Brackets, house.         *           .Connectors, grounding.         7.5           .Drive hooks.         *           .Hardware, modular telephone set         *           .Drop wire support.         *           .Drop wire clip.         *           .Clamps, drop wire.         7.3           .Drive rings.         *           .Angle screw.         *           .Sleeves, splicing.         *           .Steel pole steps.         *           .Drop wire hooks.         *           .Cable suspension clamps.         7.19           .Cable, aerial and underground.         1.1
md. me. mg. mg. mh. mi. mj. mk. mm. mo. mu. mx. my. mz. na. nb.	" " " Synchronous6.8         Brackets, house
md	" " " Synchronous .6.8           Brackets, house
md. me. mg. mg. mh. mi. mj. mk. mm. mo. mu. mx. my. mz. na nb nc nd	#
md. me. mg. mg. mh. mi. mj. mk. mm. mo. mu. mx. my. mz. na nb. nc nd ne	# # " Synchronous .6.8  Brackets, house
md. me. mg. mg. mh. mi. mj. mk. mm. mo. mu. mx. my. mz. na nb nc nd ne nh	#
md. me. mg. mg. mh. mi. mj. mk. mm. mo. mu. mx. my. mz. na nb nc nd ne nh ni	# # " Synchronous .6.8  Brackets, house

vii

sp	Sealer, duct	2.6
tc	Telephone cords*	ŗ
tc	Cable ties*	
tm	Markers, cable	. 2
tp	Converters, tone-to-pulse*	,
tt	Toll ticketing system*	•
wf	Cable, self-supporting1	6
wg	Guards, cable, plastic	7.8
wk	Clamps, support, Figure 8 distribution wire*	,
wp	Posts (Wooden) buried plant housings*	,
wt	Terminals, wire, pole-mounted2	9
	<pre>Enclosures, ready-access, MPDW*</pre>	
wy	Terminals, connection, support wire-mounted*	•
za	Filler tape*	
ze	Sealing compound*	
zz	Poles, pressure treatment*	
7.7	Poles thermal treatment	

### **WIRE AND CABLE**

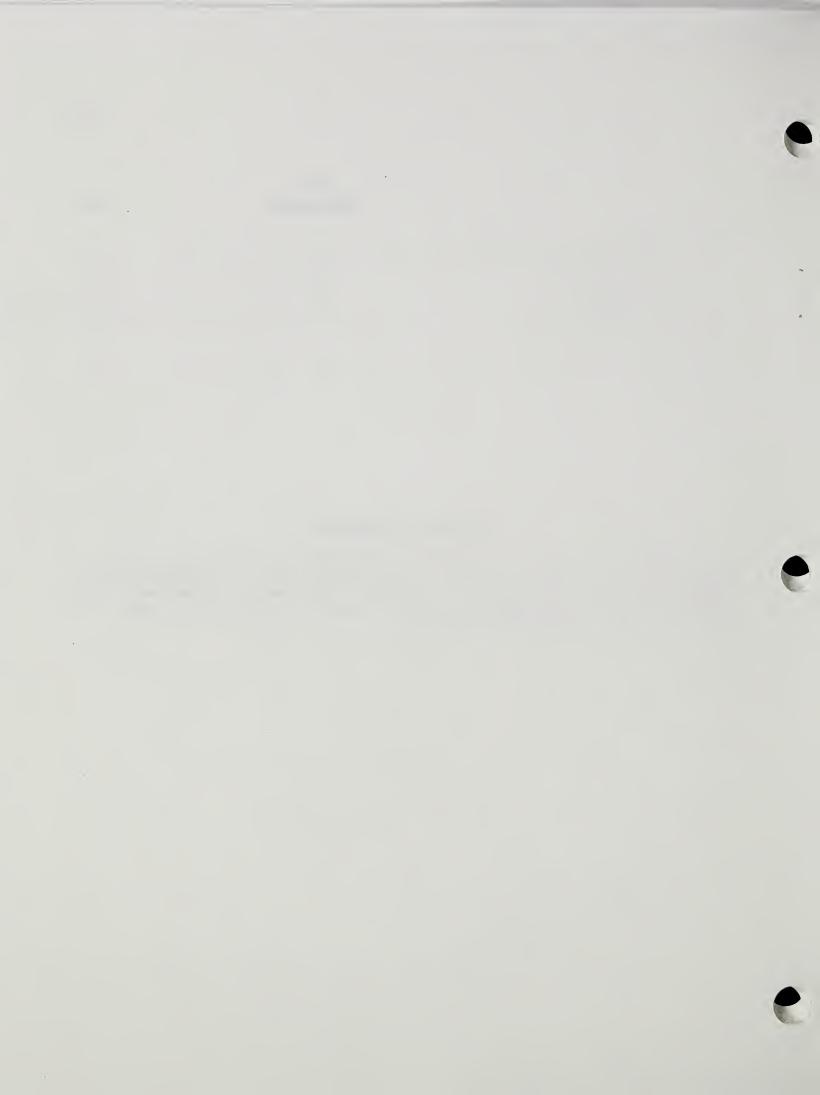
SECTION 1



		Item Designation	Page
Cable,	aerial	na	
ıı .	buried (Expanded Insulation-Filled).	sc	
п	" (Filled)		
п	fiber optic	oc	
II .	self-supporting	wf	
II	terminating (TIP)	ct	1.3
Wires,	buried service	sa	1.4
11	drop	nt	1 . 5

#### ORDERING INFORMATION

When ordering wire and cable having a standard RUS Unit Designation, this designation must be specified with the appropriate suffix or combinations of suffixes to indicate the type to be supplied. For example, filled cable with gopher-resistant shield containing copper and having compartmental cores (Screened) would be designated "BFCYH."



#### na - Aerial and Underground Cable

RUS Standard Designation "C" (Air Core) RUS Specification PE-22

These manufacturers' cables shown by X's comply with RUS Specification PE-22.

#### RUS Standard Designation Suffixes

\_C

		A, C	, н, Р	_	_	H1C	
Manufacturer	19 AWG	22 AWG	24 AWG	26 AWG	19 AWG	22 AWG	24 AWG
Alcatel	х	х	х	х	-	-	-
AT&T Technologies(1)	х	х	х	х	-	-	-
Essex	х	х	х	х	-	х	-
General Cable <sup>(1)</sup>	х	х	х	х	х	х	х
Independent Cable <sup>(2)</sup>	-	х	-	-	-	-	-
Superior Cable	х	x	х	х	х	х	х

#### Suffixes:

Coated Aluminum Shield	A
5 mil Copper Shield	
Screened Cable for T1 Carrier	H
Screened Cable for T1C Carrier	I1C
Preconnectorized Cable for 100 Pairs and greater	P

Notes: (1)Not accepted for suffix P.

(2)Not accepted for suffixes H and P.

#### sc - Buried Cable

RUS Standard Designations "BFC," "CW," and "UF" (Filled) 7 CFR 1755.390

These manufacturers' cables shown by X's comply with 7 CFR 1755.390

#### RUS Standard Suffixes

Manufacturer	<u>A<sup>(1)</sup></u>	<u>C<sup>(1)</sup></u>	<u>Y<sup>(1)</sup></u>	<u>X<sup>(1)</sup></u>	H <sup>(1)</sup>	H1C(2)	P <sup>(1)</sup>
Alcatel	х	х	х	х	х	-	х
AT&T Technologies	х	х	х	x	-	-	-
Essex Group, Inc.	х	х	х	x	x	x	х
General Cable	х	х	х	x	х	х	-
Independent Cable (3)	х	х	х	-	-	-	-
Northern Telecom(4)	х	-	-	-	-	-	-
Superior Cable	х	x	х	х	х	_	х

#### Suffixes:

Coated Aluminum ShieldA
5 Mil Copper ShieldC
Gopher-Resistant Shield Containing CopperY
Gopher-Resistant Shield/Armor DesignX
Screened Cable for T1 CarrierH
Screened Cable for T1C CarrierH1C
Preconnectorized Cable 100 pairs and greaterP

#### Notes:

<sup>(1)</sup> Available in 19 through 26 AWG conductor sizes.

<sup>(2)</sup> Available in 19 through 24 AWG conductor sizes.

<sup>(3)</sup>Not accepted for 26 AWG conductor sizes.

<sup>(4)</sup>Not accepted for 19 AWG conductor sizes.

#### sc - Buried Cable

RUS Standard Designations "BFC," "CW," and "UF" (Expanded Insulation - Filled) 7 CFR 1755.890.

These manufacturers' cables shown by X's comply with 7 CFR 1755.890.

#### RUS Standard Designation Suffixes

Manufacturer	_A <sup>(1)</sup>		<u>Y<sup>(1)</sup></u>	_X <sup>(1)</sup>	H <sup>(1)</sup>	H1C(2)	P <sup>(1)</sup>
Alcatel <sup>(3)</sup>	х	х	x	х	-	-	-
AT&T Technologies(3)	х	-	-	х	х	-	-
Essex Group, Inc. (4)	Х	X	Х	- <b>X</b>	х	х	Х
General Cable <sup>(3)</sup>	Х	Х	Х	Х	X	х	-
Northern Telecom(3)	Х	-	-	-	-	-	-
Superior Cable <sup>(3)</sup>	х	х	Х	x	x	x	х

#### Suffixes:

Coated Aluminum Shield	- A
5 Mil Copper Shield	
Gopher-Resistant Shield Containing Copper	
Gopher-Resistant Shield/Armor Design	- X
Screened Cable for T1 Carrier	- H
Screened Cable for T1C Carrier	- H1C
Preconnectorized Cable 100 pairs and greater	- P

Notes: (1)Available in 19 through 26 AWG conductor sizes.

<sup>(2)</sup>Available in 19 through 24 AWG conductor sizes.

<sup>(3)</sup> Accepted only for foam/skin.

<sup>(4)</sup> Accepted for foam and foam/skin.

1.3				
1-95				
ct				
Manufac	turer			
			ting (TIP) Cable <sup>(1)</sup>	
		RUS Speci	fication PE-87	
These m	anufacturers' c	ables shown by	X's comply with RUS Speci	fication PE-87.
		RUS	Standard Designation Suff	ixes
		_A_	_н_	<u>P</u>
Conoral	Cable <sup>(2)</sup>	x		
General	Cable.	^	-	-
Suffixe	5:			
Coated	Aluminum			A
Screen	ed Cable for T1	. Carrier		н
Precon	nectorized Cabl	e 100 pairs and	d greater	P
Notos	(1)mo bo	nd in only 22	nd 24 NWC size-	
Notes:			nd 24 AWG sizes. mils or greater.	
	11300000000101	colo mlap of o	mill of ground.	

#### Manufacturer

#### Catalog Designation

#### sa - Filled Buried Wires

These manufacturers' filled buried wires shown by catalog designations comply with 7 CFR 1755.860.

RUS Standard Designations:	BFW (di	istribution) (1)	SEB (ser	rvice) (2)
RUS Standard Suffixes:	<u>N</u>	<u>Y</u>	<u>N</u>	<u>Y</u>
Essex Group, Inc.	BDWF	BWFY	BDWF	BWFY
Independent Cable	BFWN	BFWY	BFWN	BFWY
Superior TeleTec	BDW-B	BDW-G-CSC	BDW-B	BDW-G-CSC

#### Suffixes:

Copper Alloy 220 (Bronze) Shield----- N

Gopher-Resistant Shield----- Y

#### Notes:

 $^{(1)}$ Available in 22 and 24 AWG conductor sizes.

(2)Available only in 22 AWG conductor size.

1.5

1-95

nt

#### Manufacturer

#### nt · Aerial Drop Wire

#### RUS Standard Designations "SEA" and "SEK"

#### nt-a Copper Covered Steel Reinforced Aerial Drop Wire

(These manufacturers' wires shown by catalog designations for "nt-a" comply with RUS Specification PE-7)

	Neoprene	<u>P</u>	<u>Plastic</u>		<u>Plastic</u>			
			<u>Std</u>	<u>R</u>	<u>educed</u>	Super - R	educed	
		<u>oval</u>	dumbbell	<u>oval</u>	dumbbell	oval	dumbbell	
AT&T Technologies			ASW-1/18-1/2-F	<b></b>		···		
General Cable/ Alphaduct	<del></del>		ADR-182-PVC					
Superior Cable		ADP	ADP-D			ADP/SR	ADP/SR-D	

#### nt-b Nonmetallic Reinforced Aerial Drop Wire

	One-Pair	<u>Two-Pair</u>
Independent Cable		2X22-FRASW
Superior TeleTec	<b></b>	2X22-ADPNMS

#### Manufacturer

#### wf - Self-Supporting Cable

These manufacturers shown by X's comply with RUS Specification PE-38.

#### RUS Standard Designation Suffixes

		<u></u>	<u>F</u>	
	<u>A</u>	<u> </u>	<u> </u>	<u>P</u>
Alcatel	Х	х	x	х
Essex	Х	X	x	х
General Cable	х	Х	x	-
Okonite	х	Х	Х	-
Superior Cable	х	х	X	Х

#### Suffixes:

Coated Aluminum Shields	- A
5 Mil Copper Shields	- C
Compartmental Core (Separated Core) For Digital Carrier	
Preconnectorized Cable 100-pair and greater	- P

oc - Fiber Optic Cable

These manufacturers' cables shown by catalog designations comply with RUS Specification PE-90 RUS Standard Designations "BFO," "CO," and "UO" (Filled) RUS Specification PE-90

oc-a Unit Core or Central Core Tube Fiber Core Construction

,		RUS Stan	RUS Standard Suffixes				
manuracenter		Cab.	Cable Construction				
	A <sup>(1)</sup>	B <sup>(1)</sup>	U	Ω	P(2)	Mode	<b>a a</b>
Alcatel	ı	Unitube	Unitube	ı		×	×
AT&T/AT&T Fitel	1 1	4DNX-REA	4DHX-REA 4DMX-REA	1 1	(X) P-RUS (X) P-RUS	××	1 1
	1 1	1 1	4DSX-REA 4DRX-REA	1 1	(X) P-RUS (X) P-RUS	××	1 1
Pirelli	ı	•	ı	CLT(4)	ı	×	
Siecor	1 1 1	EST-MICRO <sup>(4)</sup> EST <sup>(4)</sup>	1 1 1	EST-MICRO <sup>(4)</sup> EST <sup>(4)</sup> MAXI - BUNDLE <sup>R</sup> <sup>(4)</sup>	(X) P-RUS (X) P-RUS (X) P-RUS	×××	* * *
Sumitomo Electric	SE-3LD	SE-3LK(4)	SE-3LB	SE-3LA(4)	ı	×	ı

See page 1.7.2 for suffixes and notes.

oc - Fiber Optic Cable

These manufacturers' cables shown by catalog designations comply with RUS Specification PE-90 RUS Standard Designations "BFO", "CO", and "UO" (Filled) RUS Specification PE-90

# oc-b Multiple Loose Tube Fiber Core Construction<sup>(3)</sup>

RUS Standard Suffixes

Manufacturer

Cable Construction

티	×	ı		ı	× ×	1	· ×
Mode	×	×	×	×	× ×	×	× '
<b>P</b> (2)			•	1	(X)P-RUS (X)P-RUS		1 1
н	AAM-R	$L1_{-} - {}^{(5)}H_{-} - {}^{(6)}12_{-} {}^{(7)}01_{-}$	FG-N	S21CS-LTEGSAB	MINI-BUNDLE <sup>R</sup> MINI-BUNDLE LITE <sup>R</sup>	SE-3GA	LESDS LESDS
ъ	ARM-R	L1 (6)H (6)14_(7)01	FG-K	S21CS-LTCCSAB	MINI-BUNDLE <sup>R</sup> MINI-BUNDLE LITE <sup>R</sup>	SE-3HA	1 1
F(1)	ANM-R	$L1_{-} - {}^{(5)}H_{-} - {}^{(6)}11_{-}^{(7)}01$	FG-1	S21CS-LTEGSJB	MINI-BUNDLE <sup>R</sup>	SE-3GK	LESDD
展(1)	ASM-R	$L1_{-}$ $  ^{(5)}H_{-}$ $ ^{(6)}13_{-}$ $^{(7)}01_{-}$	FG-D	S21CS-LTCCSJB	MINI-BUNDLE <sup>R</sup> -	SE-3HK	1 1
	Alcatel	Alcoa Fujikura	AT&T/AT&T Fitel	Pirelli Cable	Siecor	Sumitomo Electric	Superior TeleTec

See page 1.7.2 for suffixes and notes.

#### Suffixes

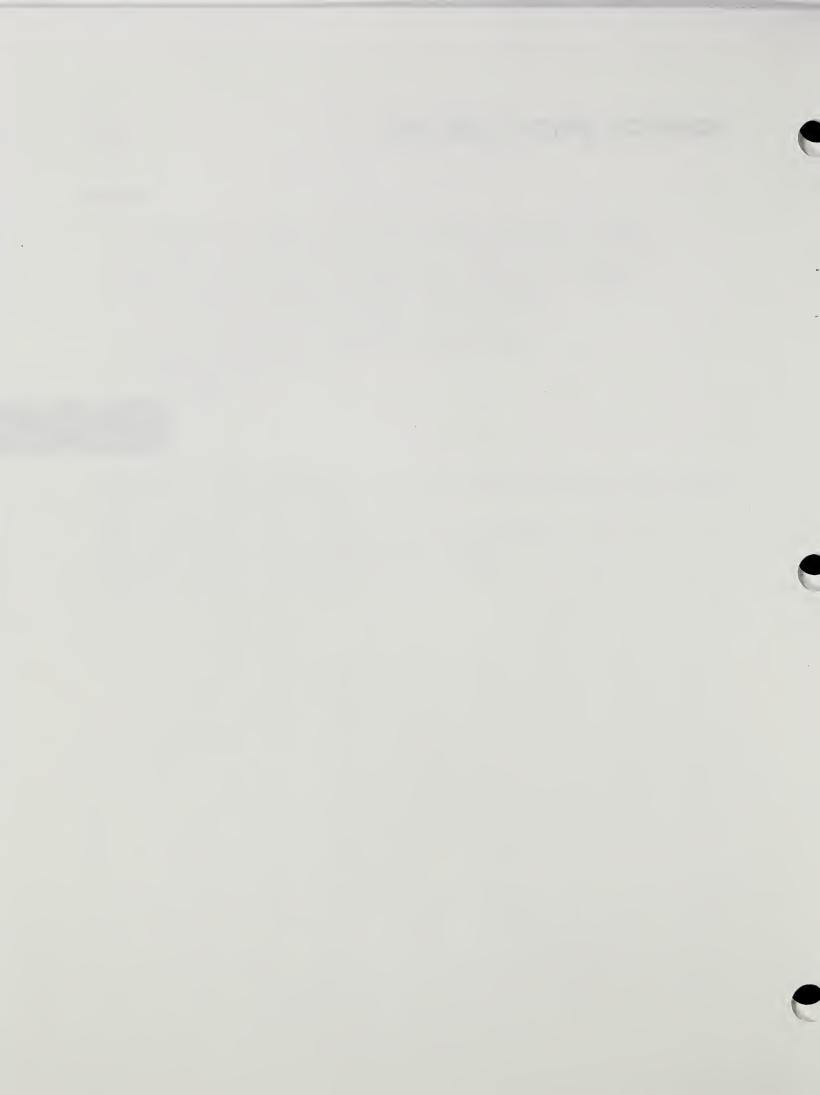
- A Nonarmored with Metallic Strength Members Embedded in Jacket
- B Nonarmored with Dielectric Strength Members Embedded in Jacket
- C Armored with Metallic Strength Members Embedded in Jacket
- D Armored with Dielectric Strength Members Embedded in Jacket
- E Nonarmored with Metallic Central Strength Member
- F Nonarmored with Dielectric Central Strength Member
- G Armored with Metallic Central Strength Member
- H Armored with Dielectric Central Strength Member
- P Preconnectorized Cable
- s Single Mode
- m Multi-Mode

#### Notes:

- (1)Aerial and duct use only.
- (2)Replace (X) with manufacturer's catalog designation shown in the listing for Cable Construction Types A through H.
- (3)May contain multiple fibers per tube.
- (4)Not embedded in jacket; surrounds central core tube.
- (5)Replace blanks with number of optical fibers.
- (6)Replace blanks with optical fiber attenuation.
- (7)Replace blank with 6 or T.

HOUSINGS, SPLICE CASES, ETC.

SECTION 2



Item signat

	Designation	Page
Cases, splice	_	
Enclosures, ready-access, cable	er	2.3
Handholes  Housings, buried plant  central office splice	se	2.5
Manholes, precast concrete	hm	2.7
Pedestal, inserts, restricted access Posts, mobile home		
Sealer, buried plant housing  " duct		
Terminals, wire, pole-mounted	wt	2.9



		pl - Splice Closure		
Manufacturer	Max. Cable Dia. (6)	Straight	Branch	Encapsulant <sup>(2)</sup>
	<u>a - Aeria</u>	l Splice Closure for Copper Cables		
		Free-Breathing		
AT&T Technologies	1.2"	1900WE-A1S	1900WE-A1S	<del></del>
·	1.8" *	1900WE-B1S	1900WE-B1S	<b></b>
	2.5" *	1900WE-C1S	1900WE-C1S	<del>.</del>
*The branch type will accommo	date maximum cable dia. of 2.2" and 3.	O", respectively.		
Communications	1.00"	C-3500	C-3500	<u></u>
Technology Corp.	1.50"	C-3501	C-3501	••
	1.75"	C-3502	C-3502	**
	2.125"	C-3503	C-3503	••
	2.75"	C-3504	C-3504	••
	3.125"	C-3505	C-3505	••
	4.50"	C-3506	C-3506	••
	6.00"	C-3507	C-3507	••
	7.50"	C-3509	C-3509	
	9.00"	C-3508	C-3508	••
	1.0"	Wingspan, C-2375-AAA	Wingspan, C-2375-AAA	
	1.6"	Wingspan, C-2376-AA	Wingspan, C-2376-AA	
	1.6"	Wingspan, C-2377-A	Wingspan, C-2377-A	
	2.2"	Wingspan, C-2378-B	Wingspan, C-2378-B	••
	3.0"	Wingspan,C-2379-C	Wingspan, C-2379-C	<u></u>
3M Company	1.00"	A2-RB	A2-RB	<u></u>
<b>,</b>	1.50"	A3-RB	A3-RB	
	2.00"	A4-RB	A4-RB	•-
	2.50"	A5-RB	A5-RB	
	3.54"	A6-RB	A6-RB	
	3.68"	A7-RB	A7-RB	
	3.96"	A9-RB	A9-RB	
	1.00"	SLiC 2X19 FB	SLiC 2X19 FB	
	1.00"	SLiC 2X29 FB	SLiC 2X29 FB	
	1.60"	SLiC 3X33 FB	SLiC 3X33 FB	
	2.20"	SLiC 5X33 FB	SLiC 5X33 FB	
	3.80"	SLiC 7X33 FB	SLiC 7X33 FB	
	3.80"	SLiC 9X36 FB	SLIC 9X36 FB	
PSI Telecom	1.50"	GATM92000	GATM92000	
(GATM)	2.50"	GATM95000	GATM95000	
(GATTIN)	4.00"	GATM97000	GATM97000	••
Raychem	0.90"	TRAC - AA	TRAC - AA	
Mayonem	1.50"	TRAC - A	TRAC - A	
	1.90"	TRAC - B	TRAC - B	•
	2.60"			•
		TRAC - B+	TRAC - B+	
	3.30"	TRAC - C	TRAC - C	•

### pl - Splice Closure

Manufacturer	Max. Cable Dia.(6)	Straight	Branch <sup>(4)</sup>	Encapsulant <sup>(2)</sup>			
a - Aerial Splice Closure for Copper Cables							
			Pressurized				
Preformed Line	2.2"	8006021	8006021				
Products	4.1"	8006022	8006022	<b></b>			
	6.85"	8006023	8006023	<u>.</u>			
	4.1"	8006024	8006024				
	6.85"	8006025	8006025				
	10.1"	8006177	8006177	-			
	10.1"	8006219	8006219				
	10.1"	8006220	8006220				
	10.1"	8006221	8006221				
PSI Telecomm.	1.0"	2X2AA	2X2AA				
(510 Version)	1.0"	2Y2AA	2Y2AA	**			
	1.6"	2A2	2A2	••			
	2.9"	2B2	2B2	**			
	3.5"	202	202	**			
	3.5"	2D2	2D2				
	4.5"	2E2	2E2	<del>.</del>			

### **b** - Buried Splice Closure for Copper Cables

### <u>Filled</u>

Brand-Rex	1.42"	SG 95-2		Splicegard
	1.42"	SG 155-4	SG 155-4	Liquid
ONE	0.501	0004 4400/051		4440051
3M	0.58"	8981-4462/GEL	<del>.</del>	4442GEL
	1.0"	8982-4462/GEL	<del>.</del>	4442GEL
	1.2"		BB2 x 24 4462/GELLA SC, DC-LHS	
	1.5"	8983-4462/GEL	-	
	1.7"	-	BB3 x 24 4462/GELLA SC, DC-LHS	
	2.0"	8984-4462/GEL	BB4 x 24 4462/GELLA SC, DC-LHS	
	2.4"	8985-4462/GEL	BB5 x 26 4462/GELLA SC, DC-LHS	
	3.33"	8986-4462/GEL	-	
	3.3"		BB6 x 26 4462/GELLA 2DC-LHS	
	3.6"		BB7 x 26 4462/GELLA 2DC-LHS	
	3.8"		BB9 x 26 4462/GELLA 2DC-LHS	

<u>Manufacturer</u>	Max. Cable Dia. (6)	Straight	Branch	Encapsulant <sup>(2)</sup>
		b - Buried Splice Closure for Cop	per Cables	
		<u>Filled</u> (Cont'd)		
Preformed Line	2.2"	8006287	8006287	RD
Products	4.1"	8006288	8006288	RD
.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	4.1"	8006289	8006289	RD
	7.1"	8006290	8006290	RD
	7.1"	9006291	8006291	RD
	7.1"	8006292	8006292	RD
	10.1"	8006293	8006293	RD
	10.1"	8006294	8006294	RD
	10.1"	8006295	8006295	RD
PSI Telecomm.	1.0"	9P212(*)-515	9P212(*)-515	D-Plus
	1.0"	9P224(*)-515	9P224(*)-515	
	2.0"	9P324(*)-515	9P324(*)-515	
	2.0"	9P424(*)·515	9P424(*)-515	
	2.5"	9P526(*)-515	9P526(*)-515	
	3.7"	9P726(*)-515	9P726(*)-515	
	4.0"	9P926(*)-515	9P926(*)-515	
		•		
*Insert end cap configuration per man	ufacturer.			
Raychem	0.6" (2-6 Pair)	XAGA MCS-A	XAGA MCS-A	Caschem 126
•	0.9" (6-12 Pair)	XAGA MCS-B	XAGA MCS-B	
	1.2"	XAGA-1650-REA/E-S	XAGA-1650-REA/E-S	
	1.8"	XAGA-1650-REA/E-A	XAGA-1650-REA/E-A	
	2.5"	XAGA-1650-REA/E-B2	XAGA-1650-REA/E-B2	
	3.0"	XAGA-1650-REA/E-C2	XAGA-1650-REA/E-C2	
	3.9"	XAGA-1650-REA/E-D2	XAGA-1650-REA/E-D2	
	3.9"	XAGA-1650-REA/E-D4	XAGA-1650-REA/E-D4	
	<u>c - Und</u>	erground Splice Closure (Manhole)	for Copper Cables	
		<u>Filled</u>		
Brand-Rex	1.42"	SG 95-2	-	Splicegard
	1.42"	SG 155-4	SG 155-4	Liquid

### pl - Splice Closure

Manufacturer	Max. Cable Dia. (6)	Straight	Branch	Encapsulant (2)
	<u>c - Undergrour</u>	nd Splice Closure (Manhole) for	Copper Cables	
		Pressurized		
Communications	1.0"	C-5100	C-5105	
Technology	1.6"	C-5101	C-5106	**
	2.2"	C-5102	C-5107	**
	3.0"	C-5103	C-5108	<b>.:</b>
	3.0"	C-5104	C-5109	
Preformed Line	2.2"	8006021	8006021	
Products	4.1"	8006022	8006022	<b></b>
	6.85"	8006023	8006023	**
	4.1"	8006024	8006024	••
	6.85"	8006025	8006025	**
	10.1"	8006219	8006219	**
	10.1"	8006220	8006220	**
	10.1"	8006221	8006221	-
PSI Telecomm.	2.9"	2B2	2B2	
(510 Version)	3.5"	202	202	••
(C.C. Corollon)	3.5"	2D2	2D2	••
	1.0"	2X2AA	2X2AA	
	1.0"	2Y2AA	2Y2AA	
	1.6"	2A2	2A2	
	4.5"	2E2	2E2	••

### $\underline{\textbf{d}} \cdot \textbf{Buildings and Central Office Vault Splice Closure for Copper Cables}^{(3)}$

### Non-Filled

	Non-Flame Retardant	Flame Retardant
AT&T		2000 FR Series
3M Company (Kohler & Besser)	K & B Series	K&B Series <sup>(5)</sup>
PSI Telecommunications	2 * 2 (*)	2 * 4 (*)
Preformed Line Products	8006 Series	8006 FR Series

<sup>\*</sup>Insert inner diameter and cover length identifying data according to manufacturer's instructions.

### pl - Splice Closure

<u>Manufacturer</u>	Max. <u>Cable Dia.</u> e - A	In-Line erial Splice Closure for	<u>Butt</u> Fiber Optic Cables <sup>(1)</sup>	<u>Branch</u>	Encapsulant <sup>(2)</sup>
		Filled			
AT&T	<u></u>	2000/UCB1 <sup>(7)</sup>	2000/UCB1 <sup>(7)</sup>	2000/UCB1 <sup>(7)</sup>	D-1000
Preformed Line Products	<b></b> .	8001006	8001005	8001006	RD
	<u>f - Bu</u>	ried Splice Closure for	Fiber Optic Cables <sup>(1)</sup>		
		Filled			
AT&T	<del>.</del>	2000/UCB1 <sup>(7)</sup>	2000/UCB1 <sup>(7)</sup>	2000/UCB1 <sup>(7)</sup>	D-1000
3M		2177-R	2177-R	2177-R	4442
Preformed Line Products		8001006	8001005	8001006	RD

### g - Buildings and Central Office <u>Vault Splice Closure for Fiber Optic Cables</u>

### Non-Filled

	Non-Flame Retardant	Flame Retardant
AT&T	<del>.</del>	UCB1
3M	<del>.</del>	2178 FOSC
Preformed Line Products	<del>.</del>	8001010 8001011

Notes: (1)Fiber organizer trays shall be ordered in accordance with manufacturer's instructions.

<sup>(2)</sup>The encapsulant is a component part of the splice closure system and shall be provided by the closure manufacturer. The encapsulant is not accepted on an individual basis.

<sup>(3)</sup> The main cable diameter, cable configuration (number of cables, pair count and gauge), and splice bundle diameter should be specified by the engineer.

<sup>(4)3</sup>M Better Buried closures are accepted for Branch splicing only.

<sup>&</sup>lt;sup>(5)</sup>For vertical installations order standard closure with "K&B Fire Shield Sleeve."

 $<sup>^{(6)}</sup>$ Metric sizes available for the following manufacturers: 3M.

<sup>&</sup>lt;sup>(7)</sup>Use AT&T ordering code 106711534.

Manufacturer	Type Conduit	Catalog Number				
hc - Underground Conduit						
Allwire, Inc.	Flexible plastic	ALLDUCT				
American Pipe & Plastic	Plastic	Type B, C, and D				
Apache Plastics, Inc.	Plastic	Type EB and Type DB				
ARMCO	Plastic	Smooth-Cor Type B and Type C				
Bay Plastics, Inc.	Plastic	Type B and Type C				
Bristolpipe	Plastic	Type B, C, and D				
Can-Tex	Plastic Plastic	Type EB and Type DB Type B, C, and D				
Carlon	Plastic Plastic	Type EB and Type DB Type B, C, and D				
Certain-Teed Products Corp.	Plastic	Type EB and Type DB				
CIBA-GEIGY <sup>(1)</sup>	Fiberglass	T & D Conduit				
Condux International, Inc.	Concrete Plastic	Condux Type EB and Type DB				
Freedom Plastics, Inc.	Plastic	Type C				
Hercules, Inc.	Flexible plastic	Corflo plastic conduit				
Hurlbut Plastic Pipe	Plastic	Type C				
Ingomar Plastic Pipe	Plastic	Type B and Type C				
J-M Manufacturing Company	Plastic	Types C, EB, and DB				
Kyova	Plastic	Type EB and Type DB				
LCP National Plastics, Inc.	Plastic Plastic	Type EB and Type DB Type B and Type C				
Northern Pipe Products	Plastic	Type B, C, and D				

Manufacturer	Type Conduit	Catalog Number
<u>hc -</u>	Underground Conduit	
Pacific Plastic Pipe	Plastic	Type EB and Type DB
Phillips Products Co., Inc.	Flexible plastic	Driscon 3200
Phone Ducs	Plastic	Multiple plastic conduit (4, 6, & 9 Way)
Pyramid Industries	Plastic	Type EB and Type DM
Quail Plastics	Plastic	Type EB and Type DB
Queen City Plastics	Plastic	Type EB and Type DB
River City Plastics	Plastic	Type EB and Type DB
Sedco	Plastic	Type EB and Type DB
Tridyn Industries	Plastic	Type EB and Type DB
Vassallo Industries	Plastic	Type B and Type C
Western Plastics	Plastic	Type EB and Type DB

Note: For fiber and plastic conduit, Type I, Type B or Type EB is for concrete encasement and Type II, Type C or Type DB may be directly buried. Type D is for exposed installation, as on bridges.

### er - Cable Enclosures

### Ready Access Enclosures

### Lashed Cables

Manufacturer	Main Cable <u>Dia. Range</u>	Straight	Branch
Communications Technology Corp.	0.50-2.20"	Termax C-2280	-
Northern Telecom	0.4-1.2"	50 E/W 81-1585 150 E/W 81-1588	50 E/W 81-1585 and 81-1512 150 E/W 81-1588 and 81-1532
Reliance Comm/Tec (Reliable)	0.4-1.2" 1.2-2.0" 2.0-3.0"	100 MB-P10318 200MB-P10709 430	100 MBY-P10318 200MBY-P10709 430Y

### Figure 8 Cables

Communications Technology Corp.	0.50-2.20"	Termax C-2280	-
Northern Telecom	0.4-1.2" 1.2-2.5"	50 150	50 E/W 81-1512 150 E/W 81-1532
Reliance Comm/Tec (Reliable)	0.4-1.2" 1.2-2.0"	100MB 200MB	100MBY 200MBY
	2.0-3.0"	430	430Y

				Strand-moun	Strand-mounted, with two branch entrances (for lashed cables)	inces (for lashed cables)			
Diameter of main: Diameter of branch:			Type E 1.2" Maximum 0.75" Maximum				Type F 2.2" Maximum 1.6" Maximum	<b>5</b> 5	ı
Type of strend:		Galvanized Steel		AlumClad Steel	- 1	Galvanized Steel		AlumClad Steel	
Northern Telecom		50 E/W 81-1585 & (two) 81-1512		50 E/W 81-1585 & (two) 81-1512	1585 1512	150 E/W 81-1588 & (two) 81-1532		150 E/W 81-1588 & (two) 81-1532	
Reliance Comm/Tec (Reliable)		200MBY		200MBY		200MBY		200MBY	
					elw Terminal Blocks				
			Strand-mot	unted, with two	Strand-mounted, with two branch entrances (for Lashed and Figure 8 cables)	shed and Figure 8 cables)			
					Filled Unprotected				
	Main Cable Dia. Range	Branch Cable Dia. Range	5-Pair	6-Pair	10-Pair	12-Pair	15-Pair	20-Pair	25-Pair
Communications Technology Corp.	0.50-2.20		Termax C-2498	Termax C-2499	Termax C-2500	Termax C-2501	Termax C-2502	Termax C-2503	Termax C-2504
PSI Telecaty (GATM)	0.30-1.50" 0.40-2.50" 0.50-4.00"	0.30-1.50" 0.40-2.50" 0.50-4.00"			GATM92H10 GATM95H10 GATM97H10		GATM92H15 GATM95H15 GATM97H15	GATM92H20 GATM95H20 GATM97H20	GATM92H25 GATM95H25 GATM97H25
Raychem <sup>(1)</sup> (2)	0.55-1.90"	0.00-1.50"				DTerminator 2 ICT - 12 REA			DTerminator 2 ICT - 25 REA

er - Cable Enclosures Ready-Access Enclosures

Manufacturer

otes:

(1) The numbers shown only include the unprotected versions of the RGTA-type terminal blocks.

 $^{(2)}$ Sheath opening is limited to 22" with a Splice Bundle size of 4".

## er - Cable Enclosures

# Ready-Access Enclosures

### e/w Terminal Blocks

# Strand-mounted (for Lashed and Figure 8 cables)

## Non-Filled Unprotected

Manufacturer	Main Cable Dia. Range	Branch Cable Dia. Range	5-Pair	10-Pair	12-Pair	15-Pair	20-Pair	25-Pair
Communications Technology Corp.	0.50-2.20"	1	ı	Termax C-2282RP	1 1	1 1	i 1	Termax C-2285RP
3M	0.04-2.50"	0.20-1.60"(3)	IDC-5-3	IDC-10-3	ı	IDC-15-3	1	ı
PSI (Telecom (GATM)(1)	0.30-1.50" 0.40-2.50" 0.50-4.00"	0.30-1.50" 0.40-2.50" 0.50-4.00"	1 1 1	GATM92010 GATM95010 GATM97010	1 1 1	1 1 1	GATM92020 GATM95020 GATM97020	GATM92025 GATM95025 GATM97025
			Non-Fill	Non-Filled Gas Protected	ected			
Communications Technology Corp.	0.50-2.20"	ı	ı	Termax C-2282GPRP <sup>(4)</sup>	- (4)	ı	ı	Termax C-2285GPRP

### Notes:

(4)

<sup>(1)</sup>The numbers shown only include the unprotected versions of the RGTA-type terminal blocks.

<sup>(2)</sup>Sheath opening is limited to 22" with a Splice Bundle size of 4".

Order double or triple end post seals for branch cable installations in accordance with manufacturer's instructions. (3)Terminal is shipped with single port end seals.

<sup>(4)</sup>These protected blocks use the Reliance Comm/Tec 1557 (R-800) cable-class "medium duty" arrester.

### Catalog Number

### hh - Handholes (1)(2)

### Handholes for Copper Systems

Armorcast	6001946 (13x24) 6001640 (17x30)
	6001974 (24x36)
	6001436 (36x60)
	0001436 (36%60)
Associated Plastics	1324-1
	1730-1
	PW2436/18
	PW3048/18
	PW3048/36
	PH3660/36-1
	PH3660/18-1
Brooks Products	1324
	1730
Carson Industries	1730-13B
CDR Systems (Homac)	TA-1324
	TA-1730
	TA-3660
	TA-2436
	TA-3048W
	TA-3048
	TA-3060
Coil Sales (Charles Industries)	FMH 361
, , , , , , , , , , , , , , , , , , , ,	FMH 362
	FMH 363
Pen-Cell Plastics	PE-10
	PE-20 (Restricted to cable
	sizes up to 100 pairs)
	PE-36
Quazite	PG1224
Quazite	PC1324
	PC1730
	PX1324
	PX1730

### Catalog Number

### hh - Handholes (1)(2)

### Handholes for Fiber Optic Systems

Armorcast	6001974 (24x36) 6001430 (30x48) 6001742 (30x60) 6001436 (36x60) 6001691 (39x30DI)
Associated Plastics	PH1324/18 PH1730/18 PH2436/18 PH3048/18 PH3048/36 5430-1 5440-1 PH3660/18-1 PH3660/36-1
CDR Systems (Homac)	TA-1730F TA-2436F TA-3048WF TA-3048F TA-3060F TA-3660F TA-4848F TA-4872F TA-4878F TA-4896F
Coastal Engineered Products	38-00520 38-00521 38-00522 38-00523
Coil Sales (Charles Industries)	FMH 361 FMH 362 FMH 363
Quazite	PG2436 PG3048 LG3060 LG3660 LR2732

Notes: (1)Not for use in areas subject to vehicular traffic.

 $<sup>^{(2)}</sup>$ Consult the manufacturer for ordering procedures for handhole depth and lid/cover locking devices and load bearing capacity.

### se - Buried Plant Housings

(Complies with PE-35)

### Type BD Pedestals

Listed manufacturers are accepted to supply housing types as indicated by X's.

### Type H Pedestals

				Pedesta	al Mount	ed			Pole Mo	unted	
	Series	Notes	BD2	BD3	BD4	BD5	<u>BD7</u> .	BD2A	BD3A	BD4A	BD5A
Champion Electrofab	(BD)	(1)(2)(3)	Х	Х	Х	Х	X	x.	X	х	X
Coastal Engineered											
Products Inc.	(BD)	(2)(3)	Х	Χ	X	X		X	X	X	X
Coil Sales	(BD)	(2)(3)	Х	Х	Х	Х	X	х	х	x	X
Communications											
Technology Corp.	(BD)	(1)(2)(3)	Χ	Χ	Х	X	•	X	Χ	X	Χ
Pyramid Industries	(BD)	(1)(2)(3)(7)	х	х	Х	Х	X	х	X	x	X
Reliance Comm/Tec											
(Reliable)	(UPC/BD)	(1)(2)(3)(7)(10)	Χ	Χ	X	Χ	X	Χ	Χ	Χ	Χ

See page 2.5.2 for notes.

### Designation

### se - Buried Plant Housings (Complies with PE-35)

### Type BD Pedestals

Listed manufacturers are accepted to supply housing types as indicated by X's.

### Type M Pedestals

			Pede	estal Mo	unted	Pol	e Mounte	<u>.                                    </u>		le Mounted d Hgt. Above	Grd.)
	Series	<u>Notes</u>	<u>BD11</u>	<u>BD12</u>	<u>BD13</u>	BD11A	BD12A	BD13A	BD11AG	BD12AG	BD13AG
Coastal Engineered											
Products, Inc.	(BD)	(2)(3)		Х	X	Х	Х	Х	Х	Х	Х
Coil Sales	(BD)	(2)(3)	Х	Х	х	Х	х	х	Х	X	Х
			<u>BD14</u>	<u>BD15</u>	<u>BD16</u>	BD14A	<u>BD15A</u>	BD16A	BD14AG	BD15AG	BD16AG
Coastal Engineered											
Products, Inc.	(BD)	(2)	Х	Х	•	Х	Х	•	Х	•	
Coil Sales	(BD)	(2)(3)	Х	Х	Х	Х	Х	Х	X	х	X
Federal Telecom	(BD)	(2)(3)	Х	Х	Х	Х	Х	Х	Х	х	X
Reliance Comm/Tec (Reliable)	(BD)	(2)(3)(10)	Х	Х	X	Х	Х	Х	Х	X	Х

See page 2.5.2 for notes.

### Designation

### se - Buried Plant Housings

### Type BDS Serving Area Interface Cabinet (4)

	Terminal <u>Type</u>	BDS100	BDS200	BDS300	Modules or Blocks <u>Size by Pair Count</u> <sup>(5)</sup>
3M	3M Module	4065(6)	4082	4086	25
	3M SS Block	4365(6)	4382	4386	25
Reliance Comm/Tec	3M Module	UPC/BDS-100	UPC/BDS-200	UPC/BDS-300	25
(Reliable)	Reliable Block	UPC/BDS-100	UPC/BDS-200	UPC/BDS-300	25
	RLS Module	RSK600AA	RSK900AA	SS1200AA	10,25,50
•	RLS Module	FSDRLS600	FSDRLS1200	FSDRLS1800	10,25,50
	RLS Module	FSLCRLS200			50

### Fiber Optic Splice Case Housings

	Stake <u>Mounted</u>	Pad <u>Mounted</u>	Pole <u>Mounted</u>
Champion Products	0FC-BD7 <sup>(8)(9)</sup>	OFC-BD7 <sup>(8)(9)</sup>	0FC-BD7 <sup>(8)</sup>
Reliance Comm/Tec	0PF0-BD7PD(8)(9)	OPFO-BD7PD <sup>(8)(9)</sup>	OPFO-BD7PL <sup>(8)</sup>

Notes:

- (1) Internal offset brackets for the BD3, BD4, and BD5 sizes are available upon request.
- (2) Grounding connectors for field mounting within the housings for terminating #6 AWG solid copper ground wire are available upon request.
- (3)Good housekeeping panels are available upon request, sizes BD3 and above. When ordering, suffix the catalog number with the letter "H".
- (4)SAI housings equipped with two doors, front and back are also available upon request.
- (5)Use the block or module recommended by the SAI manufacturer.
- (6) May be pole mounted.
- (7)BD7 may be pad mounted.
- (8) Order mounting hardware for the intended splice case in accordance with the manufacturer's instructions.
- (9) Order pad or stake mounting hardware in accordance with the manufacturer's instructions.
- (10) For additional bonding and grounding requirements, extension brackets GBREXT, GBREXTKIT, and GBRALT are available upon request.

### Designation

### sj - Central Office Splice Housings

### (splice housings for copper cables)

	Catalog Number	Tip Cable <u>Openings</u>	Cable <u>Capacity</u>
Reliance Comm/Tec	CRF54ARV <sup>(3)</sup>	54	5400
(Reliable) <sup>(4)</sup>	CRF66ARV <sup>(3)</sup>	66	6600

### (splice housings for fiber optic cables)

	Catalog Number	Fiber Ca	pacity
		Mech. Splices	Fusion <u>Splices</u>
ADC	FPL-SR2000 <sup>(3)</sup>	96	96
3M <sup>(4)</sup>	<sub>8570</sub> (1)(3)	144	192

### (splice housings with patch panels for fiber optic cables)

	Catalog Number	Fiber Cap	acity
	<del></del>	Mech. <u>Splices</u>	Fusion Splices
ADC	FiP(4)(5)	12	12
	FIPL(4)(5)	24	24
	FDP <sup>(3)(7)</sup>	24	24
	FMPS <sup>(3)(8)</sup>	36	36
	FMPL(3)(8)	72	72
	FCO-08 <sup>(5)(7)</sup>	8	8
	FCP-12 <sup>(5)(7)</sup>	12	12
3M <sup>(4)</sup>	8871(2)(3)	24	24
	8872(2)(3)	48	48
Porta Systems	CPS-12 <sup>(5)(6)(7)</sup>	12	12
	CPS-24(5)(6)(7)	24	24
	FOCUS <b>TM</b> (3)(6)(7)	48	48
	FOCUSTM(3)(6)(7)	72	72

Notes: (1)Compatible with the 8173 Connector Module for the attachment of patch panel ports. Consult the manufacturer for ordering procedures.

<sup>(2)</sup> Coupling plates or bay receptacle plates are required and must be ordered separately. Consult the manufacturer for ordering procedures concerning 24 or 48 port ST, FC, SC, D4, and SMA options, or 16 and 32 port biconic options.

<sup>(3)</sup> Accepted for use only in installations of communications equipment under the exclusive control of the communications utility in building spaces used exclusively for such installations.

<sup>(4)</sup> Accepted for wall mounting only.

<sup>(5)</sup>UL Listed and may also be used as a Fiber Optic Cable Building Entrance Terminal.

<sup>(6)</sup> Consult the manufacturer for ordering procedures concerning connector options, fiber optic pigtails or jumper options, and fiber optic stub cable options.

<sup>(7)</sup> Accepted for either wall or rack mounting.

<sup>(8)</sup> Accepted for rack mounting only.

### sk - Pedestal Restricted Access Inserts (1)

	Catalog No.	Max. Splice Diameter	· Maxim	um Splice Sizes
	outaing its.	<u> </u>	Maaiii	um opnos oras
			25xModules	Single Pair Connector
3M	4634	57mm (2.25 in.)	100-Pair	50-Pair
	4635	102mm (4.0 in.)	400-Pair	100-Pair
	4636	140mm (5.5 in.)	900-Pair	300-Pair
	4636-XL	140mm (5.5 in.)	900-Pair	400-Pair
	4637-XL	191mm (7.5 in.)	1200-Pair	400-Pair
Preformed Line	8006258	69mm (2.75 in.)	200-Pair	200-Pair
Products	8006259	113mm (4.5 in.)	400-Pair	400-Pair
	8006260	169mm (6.75 in.)	900-Pair	900-Pair
Raychem	RE-2	48mm (1.9 in.)	50-Pair	50-Pair
	RE-3	75mm (3.0 in.)	100-Pair	100-Pair
	RE-4	83mm (3.3 in.)	200-Pair	200-Pair
	RE-6	113mm (4.5 in.)	600-Pair	900-Pair
	GT-3 <sup>(2)</sup>	65mm (2.6 in.)	100-Pair	100-Pair
	GT-4 <sup>(2)</sup>	90mm (3.6 in.)	200-Pair	200-Pair
	GT-6 <sup>(2)</sup>	108mm (4.3 in.)	400-Pair	600-Pair
Reliance Comm/Tec	RSR3100	63.5mm (2.5 in.)	150-Pair	150-Pair
(Reliable)	RSR4200	63.5mm x 101.6mm	225-Pair	225-Pair
		(2.5 in. x 4 in.)		

Notes: (1)Pedestal restricted inserts should not be filled. Splices that require filling should be placed in a splice case.

<sup>(2)</sup>Not recommended for areas susceptible to temporary flooding.

3M

### Manufacturer

### Catalog Number

### ps - Buried Plant Housing Sealer

Courtaulds Aerospace	Semco PR-820-2	62	Cu.	In.
	Semco PR-820-6	224	Ħ	11
	Semco PR-820-8	336	11	11
	Semco PR-820-20	805	11	11
	Semco PR-820 4	200	11	п
W. R. Grace	Polycel 100			
J.A.D.E., Ltd.	PIG 375 3 oz Volume	54	11	11
	" 470 4 " "	84	11	11
	" 650 6 " "	126	11	11
	" 825 8 " "	171	11	11
	" 1050 10 " "	324	II	11
	" 1080 16 " "	540	11	II
3M	4411 - A Bag	45	11	ıı
	B Bag	95	11	11
	C Bag	250	11	п
	750 Gram Can	450	II	11

### sp - Duct Sealer

Courtaulds Aerospace	Semco PR-821-2	27	Cu.	In.
	Semco PR-821-6	75	H	11
	Semco PR-821-8	110	II	11
	Semco PR-821-20	317	11	11
	Semco PR-821-1	3337	II	11

4416

111	

Manufacturer	Base Size	Catalog Number			
hm - Precast Concrete Manholes					
Advance Concrete Products	12' x 5' x 6'-6"  12' x 6' x 7'  8' x 4' x 6'  8' x 4' x 6'  12' x 6' x 7'  12' x 6' x 7'  12' x 6' x 9'-6"	A Manhole A-1 " SA " SJ " J3-1 " High-Mount T Carrier Manhole			
3.(4)(5)	4' x 4' x 6'-9"	Telephone Vault			
Amcor Inc. (3)(4)(5)	3.5' x 5' x 3' 3.5' x 5' x 3' 4' x 6' x 7' 6' x 8' x 7' 6' x 12' x 7'	UV 3.553-REA-H UV 3.553-REA-L UVMB467 UVMB687-PM UVMB6127			
Brooks Products <sup>(3)(4)</sup>	4' x 4' 4' x 8' 4'-6" x 8'-6" 5' x 10'-6" 5' x 12' 6' x 12' 6' x 12'	REA 300FPB42T REA 4080FM72 REA 510FM78 REA 650FM78 REA 6000FM78 REA 6000FM84 REA 6000DM84			
Dalworth Quikset <sup>(3)(4)(5)</sup>	3' x 5' 4' x 4'	305 404			
	4' x 5'-6" 4' x 8' 4' x 8'-6" 4' x 7' 5' x 12' 6' x 12' 6' x 14'-9" 6' x 15' 7' x 7' 8' x 10' 12' x 12'	406.5 408 408A 507 512 612 614 615 707 810 1212			
DeKalb Concrete Products Inc. (3)(4)	2' x 2' 3' x 3' 4' x 4' 5' x 5' 6' x 6' 4' x 8' 5' x 10'-6" 6' x 12' 8'-10" x 8'-10" 6' x 15' 12' x 12'	REA 222 REA 333 REA 444 REA 555 REA 666 REA 48-6 REA 5106-6 REA 612-7 REA 810-810 REA 615-9 REA 1212			

Manufacturer	Base Size	Catalog Number			
hm - Precast Concrete Manholes					
Elk River Concrete Products Company of Montana <sup>(3)(4)(5)</sup>	5' x 5'-2" 5' x 5'-2" 5' x 9'-3" 5' x 9'-3" 5' x 13'-4" 5' x 13'-4" 4' x 6' 48" ROUND	EV 505.2-S EV 505.2-D EV 509.3-S EV 509.3-D EV 513.4-S EV 513.4-D EV 406 EV 48-D			
Foley-Brogdon <sup>(3)(4)</sup>	2' x 2' 3' x 3' 4'-2" x 4'-2" 6' x 6' 4'-6" x 8'-6" 5' x 10'-6" 5' x 10'-6" 6' x 8' 6' x 12' 8' x 8' 9' x 12' 6' x 10'	Model 222 Model 333 Model 444 Model 6060 Model 8545 Model 1050 Model 1050S Model 8060 Model 1260 Model 8080 Model 1290 Model 1060			
Hartford Concrete Products <sup>(2)(3)(4)</sup>	5' x 10' 4' x 8' 4' x 4'	REA 10-5 Series <sup>(2)</sup> REA 8-4 Series REA 4-4-4			
Jensen Pre-Cast Concrete Products Co.	3' x 5' x 3' 3' x 6' x 3' 4' x 4' x 4' 4' x 6'-6" x 3' 4'-6" x 8'-6" x 6'-6" 5' x 10'-6" x 7' 6' x 12' x 7' 6' x variable x 9' 6' x variable x 9'	REA 3660-TA REA 3672-TA REA 4848 REA 466-TA REA PTS-65 REA 38-5706-U-7 REA 384-4046-1 REA PTS-69 REA PTS-69-I			
A.C. Miller Concrete Products Inc.(3)(4)(5)	3' x 3' 4' x 4' 4' x 6' 4' x 7'-9" 4'-6" x 10'-6" 5' x 12' 6' x 12' 6' x 6' 6' x 8' 5' x 10'-6" 8' x 8' 10' x 10'	REA-3x3 REA-4x4 REA-4x6 REA-18 REA-20 REA-38Y REA-6x6 REA-6x6 REA-6x8 REA-5x10.6 REA-8x8 REA-10x10			
Ornamental Poles, Inc. <sup>(3)(4)</sup>	6'-0" x 12'-0"	REA-Y			

Manufacturer	Base Size	Catalog Number
<u>hm - F</u>	Precast Concrete Manholes	·
Pre Cast Concrete	5'-10" x 10'-4" x 7'2"	Type AA
Company, Inc.		
Pre-Cast Manufacturing	3'-6" x 6'	T-36656
Company	6′ x 12′	T-6127
	5′ x 10′	T-5107
R.C.P. Vaults (Division of	2'6" x 2'6" x 2'	
Pacific International Pipe		
& Engineering, Inc.)	4'0" x 6'0" x 6'0"	466-TA
	5'0" x 9'0" x 7'2"	4484-TA
	5'0" x 9'0" x 7'2"	4484-TCA
	5'8" x 11'2" x 7'5"	5106-TA
	5'8" x 11'2" x 7'5"	5106-TCA
	6'0" x 12'0" x 7'0"	612-TA
	6'0" x 12'0" x 7'0"	612-TCA
		712-CLS
	8'0" x 14'0"	814 (3)
Southeast Precast Concrete	6′ x 12′	REA 127
Products Inc. (3)(4)	4' x 8'	REA 86
	5' x 10'	REA 510
	4' x 4'	REA 504
Utility Concrete(3)(4)(5)	3' x 4' x 4'	34 1/4
_	8' x 4' x 6'	84 1/4
	22" x 22" x 36"	23 6/8
	2' x 2' x 2'-10"	22 2/10
	4' x 4' x 4'	44 1/4
	4' x 4' x 6'	44 3/4
	10' x 5' x 7'	105 1/4
	12' x 6' x 7'	126 1/16
	12' x 6' x 10'	126 3/16
	12' x 6' x 12'	126 5/16
	15' x 6' x 9'	156 1/4
	15' x 6' x 12'-6"	156 2/4
Utility Precast	6′ x 12′	A Series
Inc. (3)(4)(5)	5' x 10'	B Series
	4-1/2' x 8-1/2'	C Series

hm

Manufacturer

### Base Size

### Catalog Number

A4046-13

### hm - Precast Concrete Manholes

	4' x 6' 4'-2" x 4'-2" 4'-2" x 6'-6" 5'-10" x 10'-10" 6'-10" x 12'-10" 2'3" x 5'2 1/2" x 2'4" 2'3" x 5'2 1/2" x 3'4" 3'1" x 6'7" x 4'1 1/2" 5' x 9' x 7'2" 5'4" x 9'4" x 7'6" 5'8" x 11'2" x 7'5" 8'8" x 10'8" x 8'6" 7'10" x 12'11" x 8'7" x 14' x 6'6" through 12' x 18' x 6'6" through 12'	466TA <sup>(3)</sup> 504-LA <sup>(3)</sup> 577-LA <sup>(3)</sup> 510Y <sup>(3)</sup> 38-612-Y <sup>(3)</sup> 25 TA 253 TA 264 TA 4484-type 4686-type 5106-type 38Y-type 810 TA 712 LA 814-66 TA through 814-12 TA 818-66 TA through 818-12 TA
	_	
(Condux International TM) (3)	12' x 6'	A4046-1
Winnebago Concrete Products	12' x 6'	J4046-3
Janesville Concrete Products	10' x 5'-6"	L4046-4
Chicago Pre-Cast Products	8'-6" x 10'-2"	T4046-5
	8' to 11' x 4' to 6'	C4046-6

5' x 8' x 6'-6"

Notes: (1)These manholes come equipped with Alhambra Foundry A1083 cover or equivalent.

<sup>(2)</sup> Equipped with 27-inch frame and cover made by Dewery Brothers Foundry.

<sup>(3)</sup>Depth of the hole (headroom) must be indicated on the order.

<sup>(4)</sup> Type of manhole (A, J, L, T) must be indicated on the order.

<sup>(5)</sup>Extension sections may be ordered if required.

### Catalog Number

### sd - Mobile Home Posts

Champion Metal Products	F-R8305 <sup>(5)</sup>	-
Coil Sales	3518 (Internally mounted protector)	3519 (Trailer mounted protector)
Garrett Mfg. Co.(2)(3)	GMHP-36 <sup>(2)(3)</sup> GUMP-36 <sup>(2)(3)</sup> IMP-36 <sup>(4)</sup>	GMHP-48 (3" x 6" plate) (2)(3) GUMP-48 (3" x 12" plate) (2)(3) IMP-48 (6" x 12" plate) (4)
Indiana Pressed Steel	THP-1E <sup>(1)</sup>	<u>-</u>
Pyramid Industries	SEP-36	SEP-46
Reliance Comm/Tec (Reliable)	MHP-36	MHP-48

Notes: (1)Limited to use in noncorrosive areas only.

(2)Additional 3" x 12" plates are also available.

(3)Specify color - for green (gn) - for orange (on).

(4)Available in light green only.

 $^{(5)}$ Adjustable to 3 feet, 3-1/2 feet, and 4 feet.

### **Catalog Number**

### wt - Pole Mounted Wire Terminals

### wt-a Unprotected nonfilled Blocks

	1-Pair	10-Pair	25-Pair	50-Pair
Communications Technology Corporation			C-2230 <sup>(1)</sup>	C-2235 <sup>(1)</sup>
Reliance Comm/Tec (Reliable)	5533	<del></del>	-	<del></del>

### wt-b Unprotected Filled Blocks

	<u>Variable</u>	10-Pair	25-Pair	50-Pair
AMP, Inc.	-	<del></del>	775164-1 <sup>(1)</sup>	
Communications Technology Corporation	-	-	C-2516 <sup>(1)</sup>	C-2518 <sup>(1)</sup>
Raychem (DTerminator 2)	DT2-STM-HSG-1L <sup>(3)</sup>	PMT-10-FS <sup>(1)</sup> -REA	PMT-25-FS <sup>(1)</sup> -REA	PMT-50-FS <sup>(1)</sup> -REA

### wt-c Protected Filled Blocks

25-Pair

Communications Technology

Corporation

C-2517<sup>(1)(2)</sup>

<sup>(1)</sup>Order stub cable length in accordance with manufacturer's instructions.

 $<sup>^{(2)}</sup>$ These protected blocks use the Reliance Comm/Tec 1557 (R-800) cable-class "medium duty" arrester.

 $<sup>{}^{(3)}{\</sup>rm May}$  be ordered with one to ten Site Term Modules.

### MISCELLANEOUS SPLICING MATERIALS

SECTION



	Item	
	<u>Designation</u>	Page
Connectors, shield bonding  " splicing and cross-conn	ectingcm	
Harnesses, bonding connector	gs	3.3
Markers, cable	tm	3.2
Numerals, decal type	sm	3.6
Repellent, ant	ap	
Signs, warning		
STEEVES. ITTEU DIASTIC		



### **Catalog Number**

### gh · Shield Bonding Connectors (Complies with PE-33)

### gh-a Copper Cable and Wire Connectors

		Cable Connectors		Service Wire Connectors
	<u>!</u>	Outside Cable Diameters		
	Less than	1.0 to <u>1.5 inch</u>	Greater than  1.5 inch	
A.K. Stamping	400-366-332 <sup>(4)</sup>	400-366-340	400-366-357	
Hubbell Premise	(8544 B Bond #1) BC-285-S <sup>(2)</sup>	(8544 B Bond #2) BC-875-SB	(8544 B Bond #3) BC-875-SB	BC-285 <sup>(1)</sup>
Wiring	BC-285-SB <sup>(3)</sup>			BC-285-S <sup>(2)</sup> BC-285-SB <sup>(3)</sup>
3M	4462SN	4462SN	4462SN	
Northern Telecom	081-0401 (Bulldog)	081-0401 (Bulldog)	081-0401 (Bulldog)	
Preformed Line				8000733 <sup>(1)</sup>
Products				(Servi-Bond)

### gh-b Armored Fiber Optic Cable Connectors

### **Outside Cable Diameters**

	Less than  0.75 inch	Greater than  0.75 inch
A.K. Stamping	400366332-MB (Mini B Bond)	·
3M	4460D	4460D

Notes:

 $<sup>^{(1)}</sup>$ For use only at station protector.

<sup>(2)</sup> For use with ring terminal harness wires.

<sup>(3)</sup> For use with braid harness wires.

<sup>(4)</sup>Not to be used on cables less than 0.50 inches in diameter.

### **Catalog Number**

### cm · Connectors and Cross-Connecting Blocks

### Splicing Connectors for Copper Conductors (2)

	opnomy ou	intestore for soppor consusters	
		Splicing Connectors (1 Conductor)	
	Moisture Resistant		Nonmoisture Resistant <sup>(1)</sup>
AMP	552678-2(3 wts)		552795-4
	552795-2		
	553017-2 (Half-Tap ts)		
3M Company	Scotchlok <sup>TM</sup> UR2		Scotchlok <sup>TM</sup> UG
	" UCC <sup>(5)</sup>		
	" UY2		
	" UB2		
	" 211		
		Splicing Connectors (1-Pair)	
	Moisture Resistant		Nonmoisture Resistant <sup>(1)</sup>
AT&T Technologies	709		-
		Connector Modules (5-Pair)	
	Straight Splice	Bridge Splice	Half-Tap Splice
AT&T (22-26 Awg)	710- <b>S</b> C1-5	710-BC1-5	710-TC1-5
Technologies <sup>(6)</sup> (19-24 Awg)	710- <b>S</b> AL-5	710-BAL-5	710-TAL-5
		Connector Modules (10-Pair)	
	Straight Splice	Bridge Splice	Half-Tap Splice
AT&T (22-26 Awg)	710- <b>S</b> C1-10	710-BC1-10	710-TC1-10
Technologies <sup>(6)</sup> (19-24 Awg)	710- <b>S</b> CL-10	710-BCL-10	710-TCL-10
		Connector Modules (25-Pair)	
	Straight Splice	Bridge Splice	Half-Tap Splice
AT&T (22-26 Awg)	710-SC 1-25	710-BC1-25	710-TC1-25
Technologies (19-24 Awg)	710- <b>S</b> CL-25	710-BC1-25	710-TCL-25
3M Company	4000-D	4005-DPM	4008-D
	4000-DT	4005-DPM/TR	4075- <b>s</b> <sup>(3)</sup>
	4000-D/TR	4077-A <sup>(3)</sup>	
	4001-D	4077-B <sup>(3)</sup>	
	4007-D	4077-C <sup>(3)</sup>	
	4075- <b>S<sup>(3)</sup></b>	4077-D <sup>(3)</sup>	

### **Catalog Number**

### cm - Connectors and Cross-Connecting Blocks

### Splicing Connectors for Copper Conductors (2)

		Cross-Connecting Modules (10-Pair)	
	<u>Feeder</u>	<u>Distribution</u>	Carrier
	(Green)	(Blue)	(Red or Yellow)
Reliance Comm/Tec	RLS10G	RLS10B	RLS10R
(Reliable)			
		Cross-Connecting Modules (25-Pair)	
	<u>Feeder</u>	<u>Distribution</u>	<u>Carrier</u>
	(Green)	(Blue)	(Red or Yellow)
BM Company <sup>(3)</sup>	4010-E	4011-E	4012-E
Reliance Comm/Tec (Reliable)	RLS25G	RLS25B	RLS25R
		Cross-Connecting Modules (50-Pair)	
	Feeder	<u>Distribution</u>	<u>Carrier</u>
	(Green)	(Blue)	(Red or Yellow)
Reliance Comm/Tec (Reliable)	RLS50G	RLS50B	RLS50R
		Cross-Connecting Screw Blocks <sup>(4)</sup>	
		25-Pair	
BM Company		4320 SS-25	
Reliance Comm/Tec (Reliable)		BT 1-25	
		Splicing Connectors for Optical Fibers	
	<u>Passive</u>	<u>Tunable</u>	Mass
BM Company	2525-A <sup>(7)</sup>		
	2590-A <sup>(8)</sup>		

- Notes: (1)Nonmoisture resistant connectors are to be used only on plasticinsulated nonfilled cables utilizing airtight splice enclosures and when moisture protection is provided by pressurization.
  - (2)Connectors in strip form may be used. Always use tool recommended by the manufacturer.
  - (3)All listed 3M modules shall use the appropriate grease boxes (4075-S, 4077-A, 4077-B, 4077-C, or 4077-D) in all applications except pressurized cables.
  - (4) Use block size recommended by the SAIC manufacturer. Color code by label only.
  - (5) For clearing and capping only.
  - (6)Not to be used on 19-gauge waterproof cable with solid polypropylene or high density polyethylene insulated conductors.
  - <sup>(7)</sup>For splicing 250 micron fiber to 250 micron fiber.
  - (8) For splicing 250 micron fiber to 900 micron fiber.

### Manufacturer Catalog Number

### tm - Cable Markers

### Color-Coded Tags

Brady	B-871 <sup>(2)</sup>
Hickory Printing Group, Inc.	PC-2 <sup>(3)</sup>
U.G. Products	100 <sup>(1)</sup>

### Write-On

Brady	PWC-PK
LEM	PPCL-BW
Panduit Corp.	PSCB
Thomas & Betts Corp.	WM-BW3
	WM-BW5

Notes: (1) The catalog number is suffixed with the letter R, B, or W to indicate Red, Blue or White bands.

<sup>(2)</sup> The catalog number is suffixed with the letter B, G or Y to indicate Blue, Green or Yellow color coded tags.

<sup>(3)</sup> The catalog number is suffixed with the letter B, G, W or Y to indicate Blue, Green, White or Yellow color coded tags.

### Catalog Number

### gs - Bonding Connector Harnesses

### gs-a - #6 AWG Stranded Harness Wires

### Bonding in Aerial, Buried or Underground Splice Cases, and Ready-Access Enclosures

		<u>Noninsulated</u>			<u>Insulated</u>	
	10" Length	20" Length	22" Length	10" Length	20" Length	22" Length
Electric Motion Company	EM8100-10B.10	EM8100-20B.10	EM8100-22B.10	EM8100-10.10	EM8100-20.10	EM8100-22.10
LSW	LSW 6-10	LSW 6-20	LSW 6-22	LSW 6-10C	LSW 6-20C	LSW 6-22C
		<u>Bondin</u>	g in Buried Plant Housings			
		Noninsulated			<u>Insulated</u>	
	6" Length	11" Length	18" Length	6" Length	11" Length	18" Length
Electric Motion	5110100 00 10	F110100 14D 10		F110100 0 10		
Сотрапу	EM8100-6B.10	EM8100.11B.10	EM8100-18B.10	EM8100-6.10	EM8100.11.10	EM8100-18.10
LSW	LSW 6-06	LSW 6-11	LSW 6-18	LSW 6-06C	LSW 6-11C	LSW 6-18C

### gs-b - #6 AWG Braid

Bonding in Aerial, Buried, or Underground Splice Cases, Ready-Access Enclosures, and Buried Plant Housings

	Noninsulated	<u>Insulated</u>
A.K. Stamping	A1163	
Electric Motion Company	EM-2050	EM-2051
3M	25T <sup>(4)</sup>	25/4467 <sup>(4)</sup>

See page 3.3.1 for notes.

Siecor (CAC)

### Catalog Number

GH-13(1)

36" Length

### gs - Bonding Connector Harnesses (Stranded Type Wire)

### Buried Service Wire (Bare Metal Shields Only)

### gs-a - #14 AWG Insulated Harness Wires

### Bonding at Station Protector (Network Interface Device)

	7" Length
Electric Motion Company	EM1407TFFR <sup>(1)</sup>
Engineered Products Co.	EH-13 <sup>(1)</sup>
LSW	LSW-5 <sup>(1)</sup>
Preformed Line Products	8000739 <sup>(2)</sup>

### gs-b - #6 AWG Insulated Harness Wires

### Bonding in Buried Plant Housings

15" Length

Electric Motion Company	EM3955-6L/8100-15 <sup>(3)</sup>	EM3955-6L/8100-36 <sup>(3)</sup>

(1)Harnesses equipped with AMP's #329860 Termi-Foil<sup>R</sup> connector at one Notes: end for attachment to the bare metal shield of the service wire.

> (2)Harnesses equipped with Preformed Line Products' 8000733 connector at one end for attachment to the bare metal shield of the service wire.

(3)Harnesses equipped with Electric Motion's EM3955 connector at one end for attachment to the bare metal shield of the service wire.

(4)When ordering, state 3-inch eyelets.

3.4 1-95 sv

### Manufacturer

### Catalog Number

### sv - Filled Plastic Sleeves

Jameson (W. G. Pearson)

Order by size and description

Note: Splicing connectors and plastic sleeves are to be used only on conductor sizes and types and splicing arrangements as recommended by the connector and sleeve manufacturers.

#### Catalog Number

#### ap - Ant Repellent(1)

	Ants	Fire Ants
Fermenta Animal Health	Elastrel	Elastrel
Rainbow Technology	4485	4030

#### rp - Rodent Repellent

Phillips Petroleum

R55 Concentrate 25E

Notes: (1)Restricted to use within outside buried plant housings.

#### Catalog Number

#### sm - Buried Plant Warning Signs, Stakes and Decal Markings

#### sm-a Decal Type Warning Signs and Markings (1)(2)

#### Non-Reflective

	Warning Signs	Numerals & Letters	Symbols
W. H. Brady	х	х	
Color Arts, Inc.	х	х	
May Advertising Corp.	х	х	
3M Company	х	х	
Reliance Comm/Tec (Reliable)	х	х	
Vernon Company	х	-	
Vulcan Signs	х	x	

#### sm-b Decal Type Warning Signs and Markings (1)(2)

#### Reflective

	Warning Signs	Numerals & Letters	Symbols
W. H. Brady	-	5905 Series	-
3M Company	-	No. 5000 <sup>(5)</sup> No. 5005 <sup>(6)</sup>	No. 5002
Vulcan Signs	UCM Series	UEC Series	-

#### Catalog Number

#### sm - Buried Plant Warning Signs, Stakes and Decal Markings

#### sm-c Signs and Stakes

	Cable Splice	Cable Route	Warning
ACP International <sup>(3)</sup>	-	-	ACP-BM-53
W. H. Brady	B-11 <sup>(3)</sup> - -	B-13 <sup>(3)</sup> - -	B-12 <sup>(3)</sup> BL1 BL2
Carsonite	-	-	Impactor
Decal Industries <sup>(4)</sup>	-	-	FP(7)(8)D(9)
GreenLine <sup>(4)</sup>	-	-	FLU1RD96016
Lyle Signs Inc. (3)(4)	UT-55	UT-54	UT-53
May Advertising Corp. <sup>(3)(4)</sup>	BM55-MABCS 412	BM54-MACR 412	BM53-MABC 412
Reliance Comm/Tec (Reliable) <sup>(3)</sup>	1SP41233	1SP41232	1SP4121
Repnet	REA/PSA-1	REA/PSA-2	REA/PSA-3
Rustproof Signs, Inc. <sup>(3)</sup>	R-709 -	R-710 -	R-708 R-666
SArgent-SOwell(3)	49PHV067	49PHV069	49PHV068
Vulcan Signs <sup>(3)(4)</sup>	UCM-102	UCM-101	UCM-505

#### Mounting Stakes

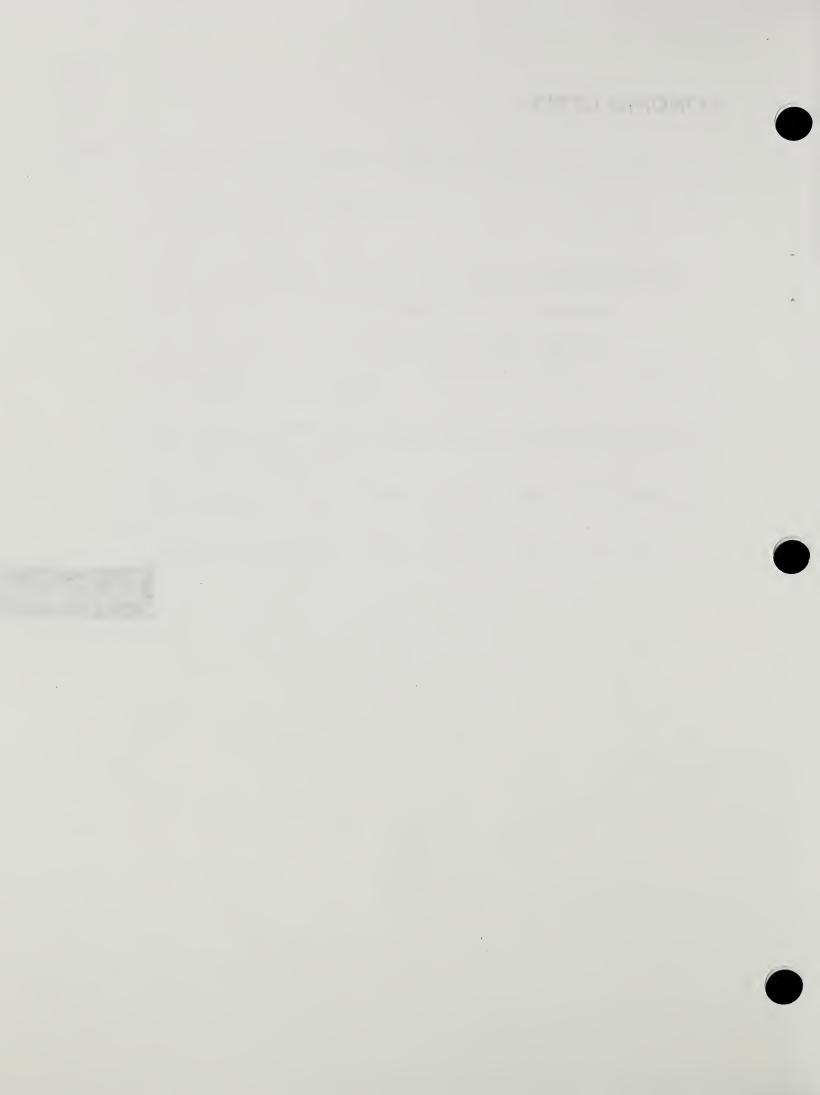
W. H. Brady	96920
Carsonite	CUM-375
Decal Industries	FP(7)(9)
GreenLine	FLU1-96
Reliance Comm/Tec (Reliable)	UP4120(10)
Rustproof Signs, Inc.	RP-208N
Vulcan Signs	82GR

#### Notes:

- $^{(1)}$ All decals should be applied using manufacturers recommended materials and practices.
- (2)Order by size and description.
- (3)Stake not included.
- (4)Signs may be ordered with black lettering on orange background.
- (5) Available only in black lettering on yellow background.
- (6) Available only in black lettering on orange background.
- (7)Blank denotes color of marker. Replace blank with W for White, O for Orange, or G for Green.
- (8)Blank denotes number and color of decals. Replace blank with 1Y for 1 yellow decal, 2Y for 2 yellow decals, 10 for 1 orange decal, or 20 for 2 orange decals.
- (9)Blank denotes length of marker in inches. Replace blank with 60, 66, 72, or 78.
- (10)Blank denotes length of stake in inches. Replace blank with either 72 or 96.

## **LOADING COILS**

SECTION 4



	Designation Designation	Page	
Coils,	loadingnono	4.1	



### no - Loading Coils (Complies with PE-26)

#### Type Designation

#### Catalog Number

#### Standard Loading Coils

	<u>G22</u>	<u>G31</u>	<u>G32</u>	<u>G34</u>	<u>G35</u>
Astrocom	50000F1	50000F1	1500	50000F1	Stack-Loc
Coil Sales	605	605	601	605	C152
Federal Telecom	824	824	152	824	35001

#### Mini-Loading Coils

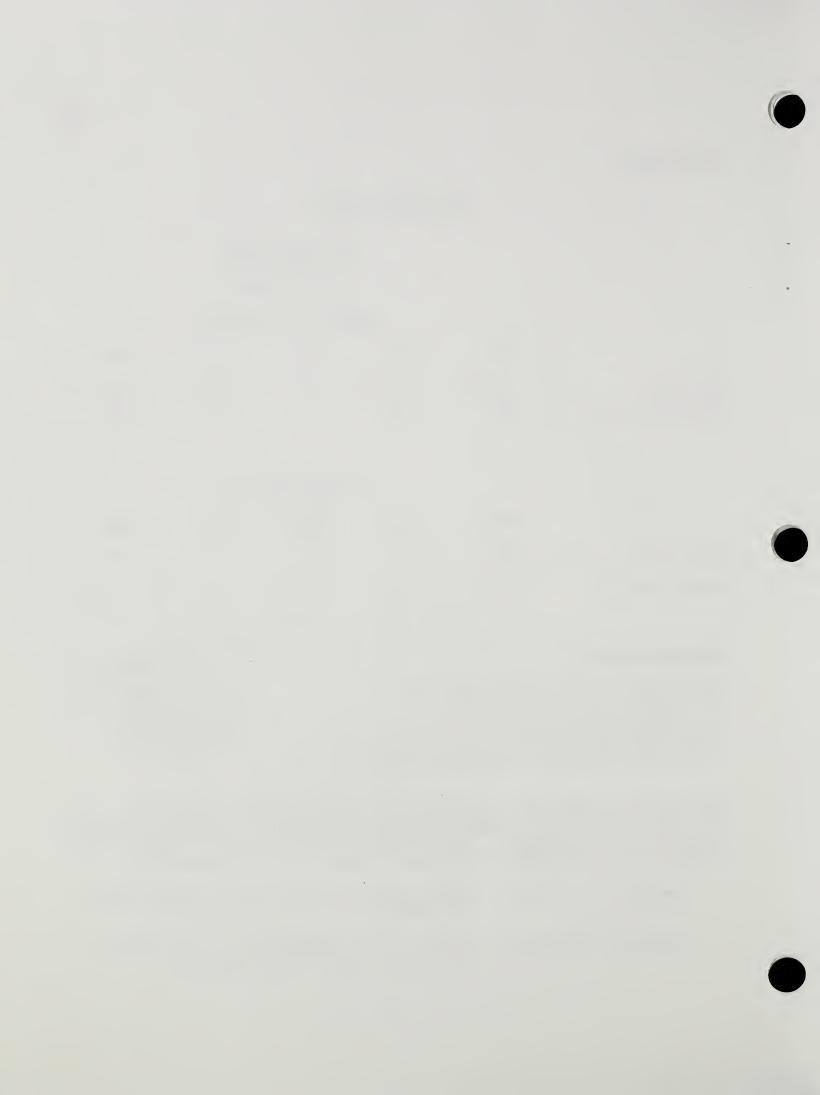
	<u>GM22</u>	<u>GM31</u>	<u>GM32</u>	<u>GM34</u>	<u>GM35</u>
Coil Sales	904	904	901	904	B152
Federal Telecom	824M	824M	152M	824M	35001M

Type Design	ations	Standard Sizes
G22 and GM2	2 Direct Burial Assemblies	25 and greater
G31 and GM3	1 Strand Mount Assemblies	25 and greater
G32 and GM3	2 Potted Assemblies	3, 12, 18, 25
G34 and GM3	4 Pole and Manhole Assemblies	25 and greater
G35 and GM3	5 Single Coil Stackable Assemblies	1

When ordering loading coil assemblies the appropriate type designation must be followed by a dash and a number indicating the number of coils with which the assembly is to be equipped. A second dash must be followed by either 66 or 88 indicating the inductance of the coils. Examples are indicated below:

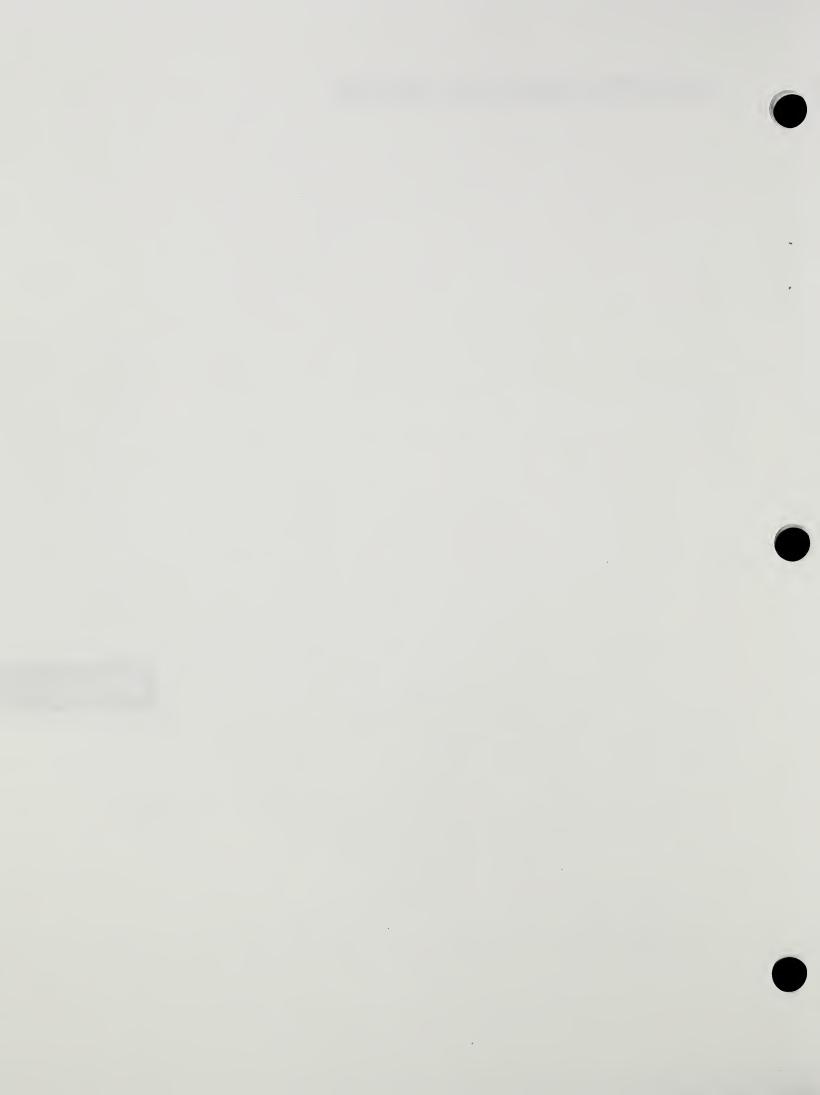
Example 1: G34-200-66 - Indicates pole mounted assembly equipped with 200 standard coils of 66 mH inductance.

Example 2: GM34-200-66- Indicates pole mounted assembly equipped with 200 mini-coils of 66 mH inductance.

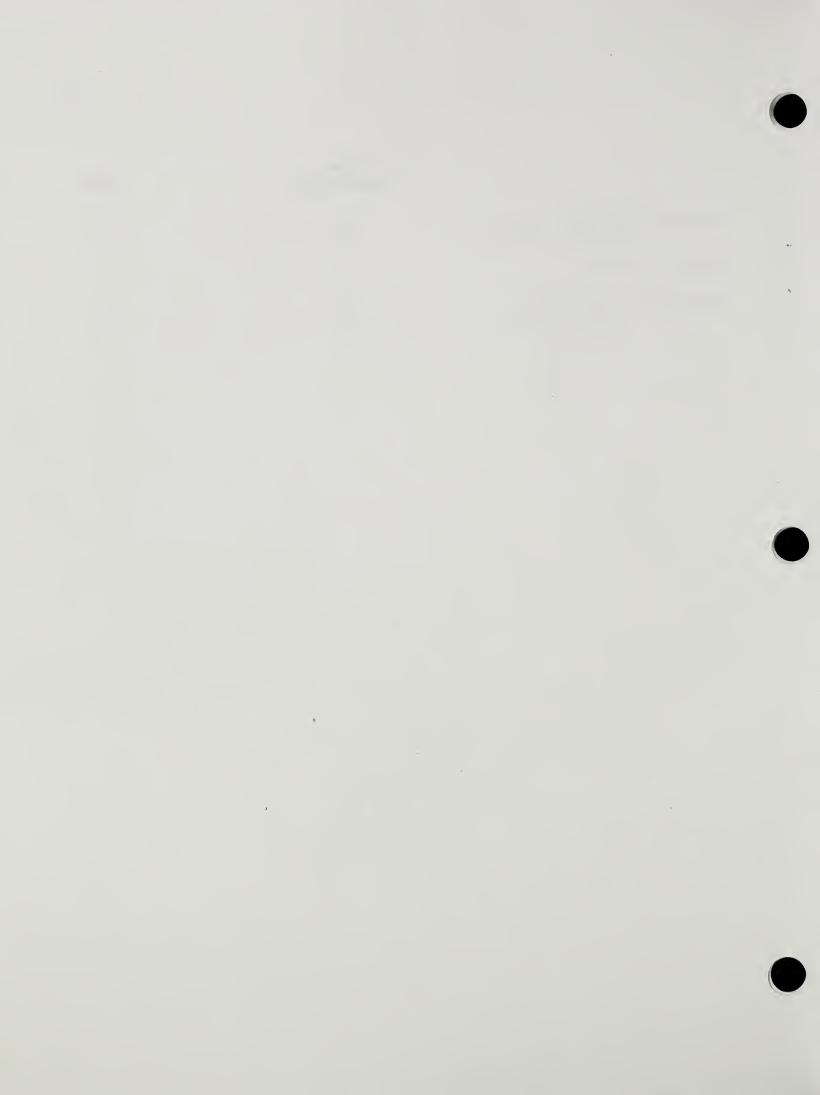


### **ELECTRICAL PROTECTIVE DEVICES**

SECTION 5



		Item <u>Designation</u>	Page
Arresters,	gas tube	nh	5.4
11	secondary power	gi	5.5
Blocks, ter	minal	sh	5.6
Protectors,	mainframe	nm	5.2
11	power service	gg	5.3
n	station	ni	5 . 1



#### ni - Station Protectors (2)

#### Fuseless, Well Mount, Carbon

manuracturer	<u>I-Pair</u>	<u>z-rair</u>	<u>4-rair</u>	<u>o-rair</u>
Reliance Comm/Tec (Reliable)	351S/1304S	393-2S/1304S	393-4S/1304S	393-6S/1304S <sup>(1)</sup>
	25-Pair			50-Pair
Reliance Comm/Tec (Reliable)	2BT25PMH/1304S 25P4X4MH/1304S <sup>(1)</sup>	)		2BT50PMH/1304S 50P4X4MH/1304S <sup>(1)</sup>

#### Notes:

<sup>(1)</sup>Restricted to inside mounting.

<sup>(2)</sup> Designations after the slash "/" mark indicates the arrester unit which RUS has accepted for use in the listed protector. Unless otherwise noted, no other arrester unit is RUS accepted for use in protectors listed here.

#### ni - Station Protectors (1)(2)

#### Fuseless, Module, Carbon

Manufacturer	<u>25-Pair</u>	50-Pair	<u>100-Pair</u>
<sub>3M</sub> (3)	4188-25 <sup>(4)</sup> /3AB  4(5) <sub>88</sub> (6) <sub>-25/3AB</sub> 4888(7) <sub>-25/3AB</sub>	4188-50 <sup>(4)</sup> /3AB 4388(8)-50/3AB 4(5) <sub>88</sub> (6)-50/3AB 4888(7)-50/3AB	4188-100 <sup>(4)</sup> /3AB 4388(8) <sub>-</sub> 100/3AB 4(5) <sub>88</sub> (6) <sub>-</sub> 100/3AB 4888(7) <sub>-</sub> 100/3AB
Reliance Comm/Tec (Reliable)	<del>.</del>	R134C/3AB	R134C/3AB

#### Fused, Well Mount, Carbon

1-Pair

Reliance Comm/Tec (Reliable) 375S/1304S

#### Notes: (1)Restricted to inside mounting.

- (2) Designations after the slash "/" mark indicates the arrester unit which RUS has accepted for use in the listed protector. Unless otherwise noted, no other arrester unit is RUS accepted for use in protectors listed here.
- (3) The arrester module accepted for these protectors is the 3AB carbon arrester module manufactured by Reliance Comm/Tec (Reliable).
- (4) Must be supplied with 4188C-25, 50, or 100 protector covers, as appropriate to station protector size provided.
- (5)Blank space replaced with 2, 4, 5 or 6.
- (6)Blank space replaced with F or R.
- (7)Blank space or blank space replaced with 2, 3, 4, 5 or 6.
- (8)Blank space replaced with DF or DR.

# ni - Station Protectors<sup>(7)</sup>

# Fuseless, Well Mount, Gas Tube

6.Pair	502A1-6LCGX/LCGX(1)(4)(6)	393-6SVSR2/1304VSR2 <sup>(1)</sup> (4)(6)	50-Pair	2BT50VSRMH/1304VSR2 <sup>(1)(4)</sup> 50VSR4X4MH/1304VSR2 <sup>(1)(4)(6)</sup>	
4-Pair	502A1-4LCGX/LCGX <sup>(1)(4)</sup>	393-4SVSR2/1304VSR2 <sup>(1)(4)</sup>			
2-Pair	502A1-2LCGX/LCGX <sup>(1)</sup> (4)	393-2SVSR2/1304VSR2 <sup>(1)(4)</sup>			
1-Pair	500-LCGX/LCGX <sup>(1)(4)</sup>	351SVSR2/1304VSR2 <sup>(1)(4)</sup>	25-Pair	2BT25VSRMHJ1304VSR2 <sup>(1)(4)</sup> 25VSR4X4MHJ1304VSR2 <sup>(1)(4)(6)</sup>	
Manufacturer	Northern Telecom	Reliance Comm/Tec (Reliable)		Reliance Comm/Tec (Reliable)	Notes: (1)2-electrode. (2)3-electrode.

(7) Designations after the slash "I" mark indicates the arrester unit which RUS has accepted for use in the listed protector. Unless otherwise noted, no other arrester unit is RUS accepted for use in protectors listed here. (6)Restricted to inside mounting.

(5) Maximum duty.

(3) Medium duty. (4) Heavy duty.

# ni - Station Protectors<sup>(7)</sup> Fuseless, Module, Gas Tube

Manufacturer	1-Pair	2-Pair	4-Pair	6-Pair
Joslyn	7040-01-EWR/125 EW-R <sup>(1)(4)</sup> 7040-01/356M <sup>(2)(4)</sup>	7040-02-EWR/125 EW-R <sup>(1)(4)</sup> 7040-02/356M <sup>(2)(4)</sup>		i
E	3251M/355M(2)(5) 3261M/356M1(2)(4)	3252M/355M(2)(5) 3262M/356M1 <sup>(2)(4)</sup>	5304M/356M1 <sup>(2)(4)</sup> 5314M/355M <sup>(2)(5)</sup>	5306M/356M1(2)(4) 5316M/355M(2)(5)
	<u>25-Pair</u> (6)	<u>50-Pair</u> (6)	100-Pair(6)	
AT&T Network Systems	189.25/381ER <sup>(1)(4)</sup>	189-50/3B1ER <sup>(1)(4)</sup>	189-100/3B1ER <sup>(1)</sup> (4)	
3М(10)	4188-25 <sup>(11)</sup> /6U2VS <sup>(1)(4)</sup> 4188-25 <sup>(11)</sup> /3GUVS <sup>(2)(3)</sup> 	4188-50 <sup>(11)</sup> /6U2VS <sup>(1)</sup> (4) 4188-50 <sup>(11)</sup> /3GUVS <sup>(2)</sup> (3) 4388-50 <sup>(14)</sup> /6U2VS <sup>(1)</sup> (4) 4388-5n <sup>(14)</sup> /3GUVS <sup>(2)</sup> (3)	4188-100 <sup>(11)</sup> / <sub>3</sub> 6U2VS <sup>(1)</sup> (4) 4188-100 <sup>(11)</sup> / <sub>3</sub> GUVS <sup>(2)</sup> (3) 4388-100 <sup>(14)</sup> / <sub>3</sub> GUZVS <sup>(1)</sup> (4) 4388-100 <sup>(14)</sup> / <sub>3</sub> GUVS <sup>(2)</sup> (3)	
	4 (8)88 (9).25/6U2VS(1)(4) 4 (8)88 (9).25/3GUVS(2)(3) 4 (12)88 (13).25/6U2VS(1)(4) 4 (12)88 (13).25/3GUVS(2)(3)	1)(4) 2)(3) <sub>VS</sub> (1)(4) <sub>VS</sub> (2)(3)	4 (8)88 (9).100/6U2VS(1)(4) 4 (8)88 (9).100/3GUVS(2)(3) 4 (12)88 (13).100/6U2VS(1)(4) 4 (12)88 (13).100/3GUVS(2)(3)	
Northern Telecom	C-552/7X <sup>(1)(4)</sup> C-552/9X <sup>(2)(4)</sup>	C-550/7X <sup>(1)(4)</sup> C-550/9X <sup>(2)(4)</sup>	C-551/7X <sup>(1)(4)</sup> C-551/9X <sup>(2)(4)</sup>	
Reliance Comm/Tec (Reliable)	BEP (15) <sub>25</sub> (16) <sub>1</sub> (20) BEPB25 (18) <sub>1</sub> (20) BEP (19) <sub>25</sub> SC (17) <sub>1</sub> (20)	R134C/6U2VS <sup>(1)</sup> (4) R134C/36UVS <sup>(2)</sup> (3) BEP (15) <sub>50</sub> (16) <sub>1</sub> (20) BEPB50 (18) <sub>1</sub> (20) BEP (19) <sub>50SC</sub> (17) <sub>1</sub> (20)	R134C/6U2VS <sup>(1)</sup> (4) R134C/3GUVS <sup>(2)</sup> (3) BEP (15) <sub>100</sub> (16) <sub>1</sub> (20) BEPB100 (18) <sub>1</sub> (20) BEP (19) <sub>1</sub> 00SC (17) <sub>1</sub> (20)	
Ē	515 25/355M(2)(5) 516 25/356M1(2)(4)	·		

See page 5.1.4 for notes.

#### ni - Station Protectors(7)

#### Fused, Well Mount, Gas Tube

#### 1-Pair

Reliance Comm/Tec (Reliable)

375SVSR2/1304VSR2(1)(4)

Notes: (1)2-electrode.

(2)3-electrode.

(3)Medium duty.

(4)Heavy duty.

(5)Maximum duty.

(6) Restricted to inside mounting.

(7)Designations after the slash "/" mark indicates the arrester unit which RUS has accepted for use in the listed protector. Unless otherwise noted, no other arrester unit is RUS accepted for use in protectors listed here.

(8)Blank space replaced with 2, 4, 5 or 6.

(9)Blank space replaced with F or R.

(10) The arrester modules accepted for these 3M protectors are manufactured by Reliance Comm/Tec (Reliable).

(11)Must be supplied with 4188C-25, 50, or 100 protector covers, as appropriate to station protector size provided.

(12)Blank space replaced with 8 or 9. Accepted for outdoor mounting.

(13)Blank space or blank space replaced with B.

(14)Blank space replaced with DF or DR.

(15)Replace the blank space with C, G, or CG.

(16) Replace the blank space with C, MM, CF, or FS.

(17) Replace the blank space with 6', 12', or 25'.

(18) Replace the blank space with MM, CF, or FS.

(19)Replace the blank space with C or CG.

 $^{(20)}$ Replace the blank space with 3GUVS $^{(2)(3)}$  or 6U2VS $^{(1)(4)}$ .

#### nm - Mainframe Protectors (1)(7)

#### Manufacturer

		<u>Carbon</u>	
	10-Pair	50-Pair	<u>100-Pair</u>
Porta Systems	-	-	508PF/35BCN
Reliance Comm/Tec (Reliable)	713/3AB	<u>.</u>	R399/3AB
		Gas Tube	
	10-Pair	50-Pair	<u>100-Pair</u>
AT&T Network Systems	-	-	310/3B1ER <sup>(2)(5)</sup>
GTE Sylvania	<del>.</del>	-	DF-303/7GC <sup>(2)(5)</sup>
Northern Telecom	-	<del>.</del>	C-388/7A(2)(5) C-388/9A(3)(5)
Porta Systems	<del>.</del>		508PF/65BCN <sup>(2)(5)</sup>
Reliance Comm/Tec	R713/6A20 <sup>(2)(5)</sup>		R399/6A20 <sup>(2)(5)</sup>

R713/3G(3)(4)

Solid-State(8)

R399/3G(3)(4)

100-Pair

Reliance Comm/Tec

(Reliable)

(Reliable)

R399/S3AB

Notes: (1)Not to be used at subscribers premises.

(2)<sub>2-electrode</sub>.

(3)<sub>3-electrode</sub>.

(4) Medium duty.

(5)<sub>Heavy duty.</sub>

(6)<sub>Maximum</sub> duty.

(7) Designations after the slash "/" mark indicates the arrester unit which RUS has accepted for use in the listed protector. Unless otherwise noted, no other arrester unit is RUS accepted for use in protectors listed here.

(8)PEG-7, Class I Category.

#### Catalog Number

#### gg - Power Service Protectors

Maximum Service Voltage: 125/250

EFI Corporation DPI 153

DPI 453 Turbo ST

EFI 153

EFI 453 Turbo ST

Joslyn 1270-02

Sylvania CP 211

TII 410BM

411BM 412BM 422BM

Transtector ACP100BL

CPS 150

Tripp Lite ISOBLOK 2-0

ISOBAR 2-6

" 4-6 " 8-15

#### nh - Gas Tube Arrester(1)

Manufacturer	MDF Module	Station Module	Well Mount
Joslyn	-	2022-60-A <sup>(2)(5)</sup>	<u>-</u>
Northern Telecom	7A <sup>(2)(5)</sup> 9A <sup>(3)(5)</sup>	7X <sup>(2)(5)</sup> 9X <sup>(3)(5)</sup>	-
Porta Systems	-	65BCN <sup>(2)(5)</sup>	-
Reliance Comm/Tec (Reliable)	6A20 <sup>(2)(5)</sup> 3G <sup>(3)(4)</sup>	6U2VS <sup>(2)(5)</sup> 3GUVS <sup>(3)(4)</sup> G1200-0-350 <sup>(2)(5)</sup>	1304VSR2 <sup>(2)(5)</sup> -
TII	-	355M <sup>(3)(6)</sup> 356M1 <sup>(3)(5)</sup>	-

#### Notes:

(1)Arresters listed under this category are not complete station protectors. They are intended for use as components, as accepted and listed, in the station protector "ni" and "nm" sections of the List of Materials.

Arrester units here shall not be used in a station protector listed in the "ni" or "nm" section unless the same arrester unit is listed for use in the particular protector on the "ni" or "nm" pages.

(2)2-electrode.

(3)3-electrode.

(4)Medium duty.

(5)Heavy duty

(6)Maximum duty.

#### Catalog Number

#### gi - Secondary Power Arresters

Main Service Voltage: 125/250

	Signal and Power	Power	Only
ACT Communications(5)	_	452-120-XC	x
		452-240-XC	
		453-120-XC	
		453-240-XC	
		453-277-XC	x
		453-480-XO	X
		454-120-XC	X
		454-240-XC	X
		455-120-XO	X
		455-240-XC	X
		455-277-XC	
		455-480-XC	
		472-120-X0	
		472-240-X0	
		473-120-X0	
		473-277-X0	X
Advanced Protection Technologies	-	TE/100	TE/1000
		TE/200	TE/2000
		TE/300	TE/3000
		TE/600	TE/6000
Approved Lightning Protection Co.	-	SA-20	
EFI Corporation	-	MBP120EFI-	Y_(4)
General Electric		9L15DCB002	
Joslyn		1250-02	
		1250-32	
		1250-33	
		1265-85	
		1455-85	
Northern Technologies, Inc.	-	TCS	_(1)(2)

See page 5.5.1 for notes.

gi

#### Manufacturer

#### Catalog Number

#### gi - Secondary Power Arresters

Other Service Voltages

	Signal and Power	Power Only
Advanced Protection Technologies	-	TE/400 TE/4000 TE/500 TE/5000
Joslyn	-	1250-32-E 1456-85
Northern Technologies, Inc.	-	TCS (1)_ (3)
Tesco	-	TES 1120Y
Transtector	-	ACP3000 CPS Series

Notes: (1)Four blank spaces replaced with 100, 250, 350, 500, 1000, or LAP

<sup>(2)</sup>Blank space replaced with B, C, or E.

<sup>(3)</sup>Blank space replaced with F, G, or H.

 $<sup>^{(4)}</sup>$ Blank space replaced with 1, 2, or 3.

<sup>(5)(</sup>X) denotes manufacturer's catalog number for optional lamps, alarming, and enclosures.

#### **Catalog Number**

#### sh · Terminal Blocks

#### sh-a Unprotected Nonfilled Terminal Blocks

	5-Pair (w/leads)	6-Pair (w/leads)	10-Pair <u>(w/leads)</u>	12-Pair . <u>(w/leads)</u>	25-Pair <u>(w/leads)</u>
Communications Technology Corp.	-	_	5277001 <sup>(2,6)</sup>	C6812 <sup>(1,5)</sup>	C6825 <sup>(1,5)</sup> 5277101 <sup>(2,6)</sup>
3M Company	5550	-	-		<del></del>
Northern Telecom	-	6B1	-		<del>.</del>
Reliance Comm/Tec (Reliable)	RPT5A4 <sup>(1)</sup> RGT5A4 <sup>(2)</sup>	145B	RPT10A4 <sup>(1)</sup> RGT10A4 <sup>(2)</sup>	-	RPT25A4 <sup>(1)</sup> RGT25A4 <sup>(2)</sup>

#### sh-b Protected Nonfilled Terminal Blocks

#### (Gas Tube Type)

	1-Pair (w/single lead wire)	3-Pair (w/single lead wire)	10-Pair <u>(w/single lead wire)</u>	25-Pair (w/single lead wire)
Communications Technology Corp. (10)	-	-	5277301GP <sup>(2,6)</sup>	5277401GP <sup>(2,6)</sup>
Reliance Comm/Tec (Reliable)	281B-GR3 <sup>(10)</sup>	381B-GR3 <sup>(10)</sup>	-	

#### sh-b Protected Nonfilled Terminal Blocks

#### (Carbon Type)

	1-Pair <u>(w/single lead wire)</u>	3-Pair <u>(w/single lead wire)</u>
Reliance Comm/Tec (Reliable)	283C	383C

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				sh-c Unp	sh-c Unprotected Filled Terminal Blocks	al Blocks			
	1-Pair (w/leads)	2-Pair (W/leads)	5-Pair (w/leads)	6-Pair (W/leads)	10-Pair (W/leads)	12.Pair (W/leads)	15-Pair (Wileads)	25-Pair (wleads)	50-Pair (W/leads)
AMP, inc.	ı	ŧ	775132-9(8)	1-775132-3(8)	775133-5(8)	775133-9(8)	ı	775136-1(8)	;
Communications Technology Corp.	ı	1 1 1	54866(1,5,8,9) 2520(1,5,8) 5460002 <sup>(2)</sup>	54867(1,5,8,9) 2521 <sup>(1,5,8)</sup> 5460102 <sup>(2)</sup>	54868(1,5,8,9) 2522(1,5,8) 5460202 <sup>(2)</sup>	54869(1,5,8,9) 2523(1,5,8) 5460302 <sup>(2)</sup>	54070(1,5,8,9) 2524(1,5,8) 5460502 <sup>(2)</sup>	54071(1,5,8,9) 2525(1,5,8)	
PSI Telecom (GATM)(11)	ı	ł	ı	ı	ID10XXXXXXXXX	:	DISXXXXXXXXX	D25XXXXXXXXX	ı
Raychem (D'Terminator 2)	DT2-STM-01-MOD-ND <sup>(4)</sup>	: :	PTB-5-AU-4-REA	1 1	PTB-10-AU-4-REA PTB-10-FS <sup>(3)</sup> -REA	PTB-12-AU-4-REA PTB-12-FS <sup>(3)</sup> -REA	: :	PTB-25-AU-4-REA PTB-25-FS <sup>(3)</sup> -REA	: :
Reliance Comm/Tec (Reliable)	1	- RGIS2SLS <sup>(4)</sup>	RPIS5A <sup>(5)</sup> RGIS5A <sup>(6)</sup>	RPIS6A(5)(8) RGIS6A <sup>(6)</sup>	RPIS10A(5)(8) RGIS10A(6)(8)	RPIS12A(5)(8) RGIS12A(6)(8)	: : :	RPIS25A <sup>(5)</sup> (8) RGIS25A <sup>(6)(8)</sup> RTIS25A <sup>(7)(8)</sup>	: : :

(1,5,8)

(1)E/W bottom exit pigtail stub. Notes:

(2)EW rear exit pigtall stub.

(3)Smb cables accepted in 12 feet and 25 feet lengths using RUS accepted PE-39 or PE-89 cables. Order stub cable in accordance with manufacturer's instructions.

(4) can only be ordered stubless from the manufacturer.

(5)EW bottom exit pigtall stub available in 4, 12, or 25 foot lengths. Order pigtall stub in accordance with manufacturer's instructions.

(6)EW rear exit pigtail stub available in 4, 12, or 25 foot lengths. Order pigtail stub in accordance with manufacturer's instructions.

(7)E/W top exit pigtall stub available in 4, 12, or 25 foot lengths. Order pigtall stub in accordance with manufacturer's instructions.

(8) Can be ordered with a filled cable stub using RUS accepted PE:39 or PE:89 cables in 4, 12, or 25 foot lengths. Order stub cable in accordance with manufacturer's instructions.

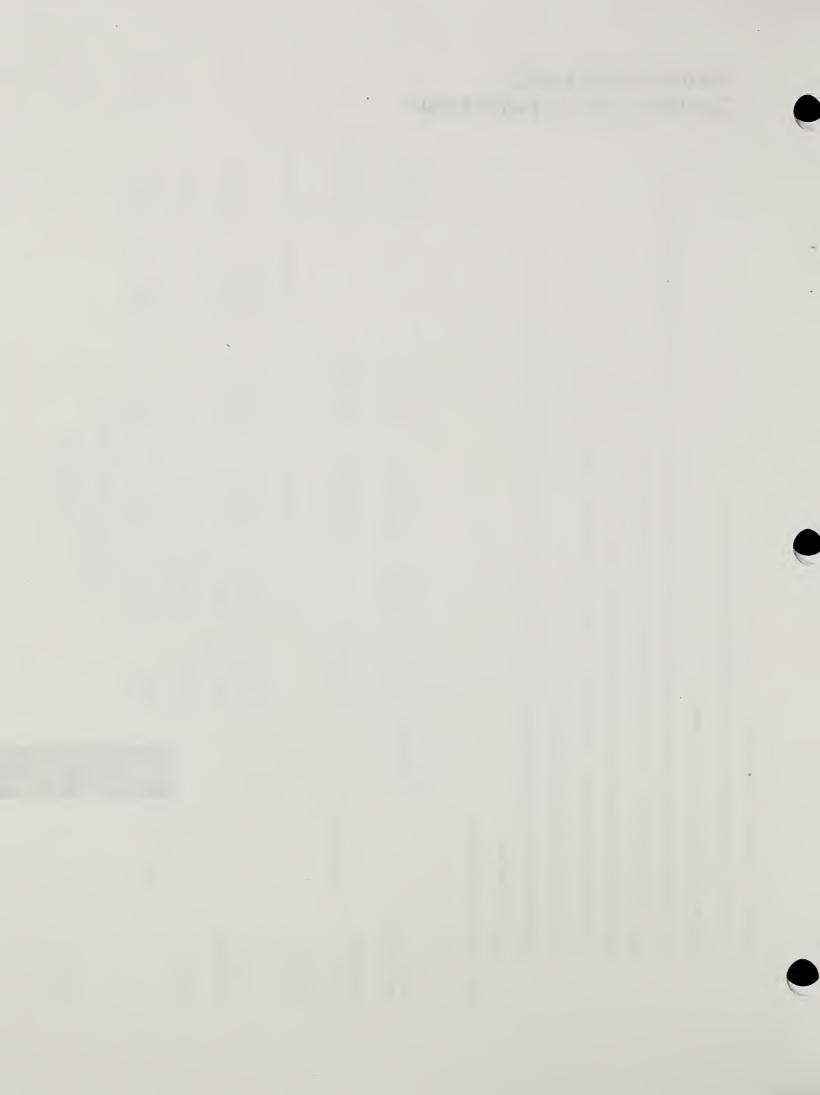
(9)Flat plane block for left and right side drop wire entrance.

(10)These protected blocks use the Reliance Comm/Tec 1557 (R-800) cable-class "medium-duty" arrester.

(11)Contact vendor for pedestal and aerial stub options.

## TRANSMISSION AND CENTRAL OFFICE EQUIPMENT

SECTION 6



D	esignation	Page
_		
Carrier equipment, digital carrier systems	ec	6 1
Concentrator, electronic subscriber		
line	ep	. 6.5
Equipment, electronic subscriber line		
concentrator	<del>-</del>	
" ringing generator	gr	. 6.6
Generators, ringing	gr	. 6.6
Lightwave digital transmission		
systems, Asynchronous	lt	. 6.7
Lightwave digital transmission		
sytems, Synchronous	lt	. 6.8
Microwave equipment	gm	. 6.2
Radiotelephone equipment, mobile and		
fixed (BETRS)	rm	. 6.3
Ringing generators		
Switching equipment, digital,		
stored program	pc	6.4



#### Type Designation

#### ec - Carrier Equipment

#### <u>Digital Carrier Systems</u>

	D4 Type Trunk Carrier (PE-60a)	Subscriber Carrier(1) (PE-64a)	T1 Type Span Line(2) (PE-60b)	Automatic Protection Switch (PE-60c)
AFC	-	UMC 1000A	-	-
Alcatel	D448	LMS 3192	Tl	B302
AT&T	D4	-	-	-
CIL/Wescom	360 D4 <sup>(3)</sup>	-	T1	-
CSE/Vidar	-	-	T-Carrier	-
DSC Communications	-	Pairspan <sup>(6)</sup>	-	-
Raychem	-	Miniplex <sup>(5)</sup>	-	-
Reliance Comm/ Tec (R-TEC)	-	DCM-24	-	-
Seiscor	-	S-24DU <sup>(3)</sup>	-	-
Siemens Stromberg- Carlson	9004 A/B	MLC-24 <sup>(4)</sup>	-	-
Sierra		DSS-6000	-1	-

#### Notes:

<sup>(1)</sup>D2/D3 encoding; compatible with compandored station carrier in small cables.

<sup>(2)</sup>Span line consists of (a) span terminating equipment, (b) line access units, (c) line repeaters and repeater housings.

<sup>(3)</sup>Optional Clear Channel Capability available.

<sup>(4)</sup>Product listed only for the Office Terminal/Remote Terminal (OT/RT) configuration. The Integrated Terminal (IT) for use on the GTD-5 EAX switch is not included for listing purposes.

<sup>(5)</sup>Only the Miniplex COT and Miniplex RT are RUS Accepted. This is a 2-channel carrier system.

<sup>(6)</sup>This is a 2-line carrier system.

#### qm - Digital Microwave Radio Systems

The following radio systems comply with PE-63 and Form 397d:

Manufacturer	Designation	RF Band	Radio Capacity & Interfaces (1)	Multiplex Designation
Alcatel	MDR-5302	2 GHz	4 DS1	None
	MDR-5202	2 GHz	8 DS1	None
	MDR-5102	2 GHz	12 DS1	None
	MDR-4106C	6 GHz	1 DS3 (28 DS1)	DMX-3003
	MDR-4206	6 GHz	2 DS3 (56 DS1)	DMX-3003
	MDR-4306	6 GHz	3 DS3 (84 DS1)	DMX-3003
	MDR-4111	11 GHz	1 DS3 (28 DS1)	DMX-3003
	MDR-4211	11 GHz	2 DS3 (56 DS1)	DMX-3003
	MDR-4311	11 GHz	3 DS3 (84 DS1)	DMX-3003
	MDR-3118A	18 GHz	4 DS1	None
	MDR-3218	18 GHz	8DS1	None
	MDR-3418	18 GHz	1DS3 (28 DS1)	DMX-3003
DMC	DMC-2M/SE	2 GHz	4 DS1	-
	DMC-10M/SE	10 GHz	4 DS1	-
	DMC-18M	18 GHz	(4xN) DS1 <sup>(3)</sup>	-
Harris-Farinon	Urbanet 2	2 GHz	1 DS1 (4 DS1)	DVT 4
	DVM2-8T	2 GHz	2 DS2 (8 DS1)	DVT 8
	DVM6-45	6 GHz	1 DS3 (28 DS1)	DVT-44
	DM6-90	6 GHz	2 DS3 (56 DS1)	DVT-44 <sup>(2)</sup>
	Urbanet 10ec	10.5 GHz	1 DS1 (4 DS1)	DVT 4
	DM11-45	11 GHz	1 DS3 (28 DS1)	DVT 44
	DM11-90	11 GHz	2 DS3 (56 DS1)	DVT 44 <sup>(2)</sup>
Northern Telecom	RD-4	4 GHz	2 DS3 (56 DS1)	DMT-300
	RD-6	6 GHz	3 DS3 (84 DS1)	DMT-300
	RD-11	11 GHz	3 DS3 (84 DS1)	DMT-300
TeleSciences	DR2C-96	2 GHz	4 DS1	-
	DR2D-192	2 GHz	8 DS1	-

Notes: (1)The basic radio capacity and interface is shown first; with additional multiplex equipment, the maximum DS1 capacity is shown as (xx DS1). The manufacturer's digital multiplexer designation is also shown; this may be plug-in cards for the radio equipment, or separate multiplexer equipment.

<sup>(2)</sup> Includes own mounting framework; not compatible with standard 19" racks.

 $<sup>^{(3)}</sup>$ For N = 1, 2 or 4.

#### Type Designation

#### rm - Mobile and Fixed Radiotelephone Equipment

#### BETRS Radio Systems

RF Band

InterDigital

Ultraphone 100<sup>(1)</sup>

450 MHz

#### Notes:

<sup>(1)</sup>Uses time division multiple access with demand assignment. 2400 baud facsimile and data transmission. Only the base station and subscriber terminal are RUS Accepted.

#### pc - Stored Program Digital Switching Equipment

Manufacturer	Base	Accepted System <u>Release<sup>(6)</sup></u>	Acceptance Classification <sup>(1)</sup>	RST(s)
AG Communications Systems	GTD-5EAX	1.6.4.1	A	RSU
American Digital Switching	ITS 4/5	9.1	A	RSS
AT&T	5ESS-2000 <sup>(7)</sup>	5E9(2)	A	RSM ORM TRM
Mitel	GX5000 <sup>(8)</sup>	GS5005	A	RST
Northern Telecom	DMS-10 <sup>(2)</sup>	406.10	A	RSLM (OPSM) <sup>(5)</sup> RLCM (OPM) RSLE
	DMS-100 <sup>(3)</sup>	BCS 36 <sup>(9)</sup>	A	RLCM (OPM) RSC-S RSC
Redcom Lab., Inc.	MDX	14.0	A	MDX-R
Siemens Stromberg- Carlson	DCO <sup>(4)</sup>	18.0	A	RLS-450 RLS-1080 RLS-4000
	EWSD	11	C <sup>(10)</sup>	RCU DLU:IPG

#### Notes:

- (1) Acceptance Classification: C-Conditionally Accepted, A-Accepted.
- (2)The DMS-10 listing includes the one and two bay version and its application as an HSO, SSO or LCC.
- (3) The DMS-100 listing includes its application as a DMS-200 tandem office and the smaller version of the SuperNode configuration, the DMS-SuperNode SE.
- $^{(4)}$ DCO listing includes the DCO-SE one and two bay configurations and DCO RNS.
- (5)Only the 192 line configuration of the RSLM/OPSM is accepted.
- (6) The listed software/firmware system release is the most recent system release that was reviewed by RUS and found to be fully compliant with all requirements of 7 CFR 1755.522, RUS General Specification for Digital, Stored Program Controlled Central Office Equipment (Form 522). Other system releases may also be acceptable. For information on specific releases, please contact the Chairman, Technical Standards Committee "A" (Telecommunications), United States Department of Agriculture, Rural Utilities Service, AG Box 1598, Washington, D.C. 20250-1598.
- (7)The 5ESS-2000 digital exchange listing includes the compact (5ESS-2000 CDX) configuration.
- (8) The GX5000 listing includes the GX5000 S application, a one shelf pair, 19 inch rack mounted, small host or RST system configuration.
- (9)BCS-36 acceptance does not include features in BCS-36+.
- (10) This switch does not provide for four (4) party service. This switch is not acceptable for bidding on projects requiring four party service.

#### ep

Manufacturer

#### Type Designation

#### ep - Electronic Subscriber Line Concentrators

Alcatel Network Corp. 1218CS<sup>(1)(5)</sup>

300S, 300M

AT&T SLC<sup>R</sup> Series 5<sup>(3)</sup>

SLC<sup>R</sup>-2000 Access System<sup>(3)</sup>

Comtech Communications Corp. Midwec MOD-20

DSC Communications Timespan<sup>(2)</sup>

Litespan-2000

HUBBELL Pulsecom PSC Series 5(4)(7)

Northern Telecom S/DMS AN

DMS-1 URBAN

Reliance Comm/Tec DISC\*S

Seiscor Technologies FiberTrag<sup>(6)</sup>

Siemens Stromberg-Carlson 914A, 914E

Notes: (1) Includes 1218GR digital subscriber carrier which can be converted to 1218CS.

(2) This listing includes the following configurations: 32, 64, 128, 256, and 512.

 $^{(3)}$ This listing includes the AT&T  $SLC^R$ -2000 Multi-Services Distant Terminal.

(4)This listing includes the following configurations: RT 596 (96 lines), RT5 192 (192 lines), and RT 580 (1,152 lines).

(5) This listing includes the 1218DS which provides for a single ended interface for use with the Alcatel 1210 digital switching system only.

(6)This listing includes both the Universal Digital Line Concentrator System (UDLC) which includes a central office terminal and the Integrated Digital Line Concentrator System (IDLC) which provides for direct digital interface.

 $^{(7)}$ This listing includes the PSC Series 5 Fiber Kit.

#### Type Designation

#### gr - Ringing Generators

(Complies with PE-40)

#### Multifrequency Generators

#### Direct Current Powered

Minimum rating, watts per frequency:	<u>15</u>	<u>25</u>	<u>.</u> 50	<u>100</u>
ITT Power Systems	-	PEC 3694	-	PEC 3843
Lorain Products	-	T-25P <sup>(1)</sup> T-25PR	T-50P <sup>(1)</sup> T-50PR	-
Warren G-V Communications	-	TRG-25 <sup>(1)</sup>	TRG-50 <sup>(1)</sup>	-

#### Single-Frequency Generators

#### Direct Current Powered

Minimum rating, watts per frequency:	<u>25</u>	<u>50</u>
ITT Power Systems	-	PEC 3877
Lorain Products	T-25P T-25PR	T-50P T-50PR

Note: (1)Basic series of equipment which may be applied in other configurations and combinations.

#### It - Lightwave Digital Transmission Systems

#### It-a Asynchronous Systems

Manufacturer	<b>Designation</b>	Optical Bit Rate (Mb/s)	System Capacity & Interfaces <sup>(1)</sup>
ADC	SFLC	1.544	1DS1
	DFLC/XR/XT	1.544	1DS1
	QFLC	6.312	1DS2 (8 DS1)
Alcatel	DML-3x50	50	1DS3 (28 DS1)
		150	3DS3 (84 DS1)
AT&T	DDM-Plus	9.486	1DS2 (8 DS1)
	DDM-1000	90	2DS3 (56 DS1)
		180	4DS3 (112 DS1)
Northern Telecom	FMT-6	6.312	1DS2 (4 DS1)
	FMT-150	150	3DS3 (84 DS1)
Telco Systems	FDX Family <sup>(2)</sup>	6.312	See Below <sup>(3)</sup>
	828AF/AF-XT	45	1DS3 (28 DS1)

#### Notes:

<sup>(1)</sup> The basic lightwave system capacity and interface is shown with the maximum DS1 capacity shown in parenthesis. The DS3 rate is approximately 45 Mb/s and has the capacity for 28 DS1s. The DS1 rate is approximately 1.5 Mb/s and has the capacity of 24 voice channels.

<sup>(2)</sup>Includes only FOX-2, FOX-2R/R XT, FOX-2RS/RS XT, FOX-2 T-HUB.

<sup>(3)</sup>FDX-2 1DS2 (4 DS1), FDX-2R/R XT and FOX-2RS/RS XT 2DS2 (8 DS1), FOX-2 T-HUB 7DS2 (28 DS1).

#### It - Lightwave Digital Transmission Systems

## It-b Synchronous Systems

		Optical		Configurations	
Manufacturer	<u>Designation</u>	Bit Rate (Mb/s)	<u>Pt-Pt</u>	Add/Drop	Ring
ADC	DS3/OC1 FLC	51.84 OC-1	Y	N	N
Alcatel	TM-50	51.84 OC-1	. у	N	N
	ADM-50	51.84 OC-1	Υ	Υ	N
	1603/12 SM	155.52 OC-3	Υ	Y	Υ
AT&T	DDM-2000	155.52 OC-3	Y	Y	Υ
		622.08 OC-12	Υ	Y	Y
Northern Telecom	S/DMS Transport Node	155.52 OC-3	Y	Y	N
		622.08 OC-12	Υ	Υ	Y



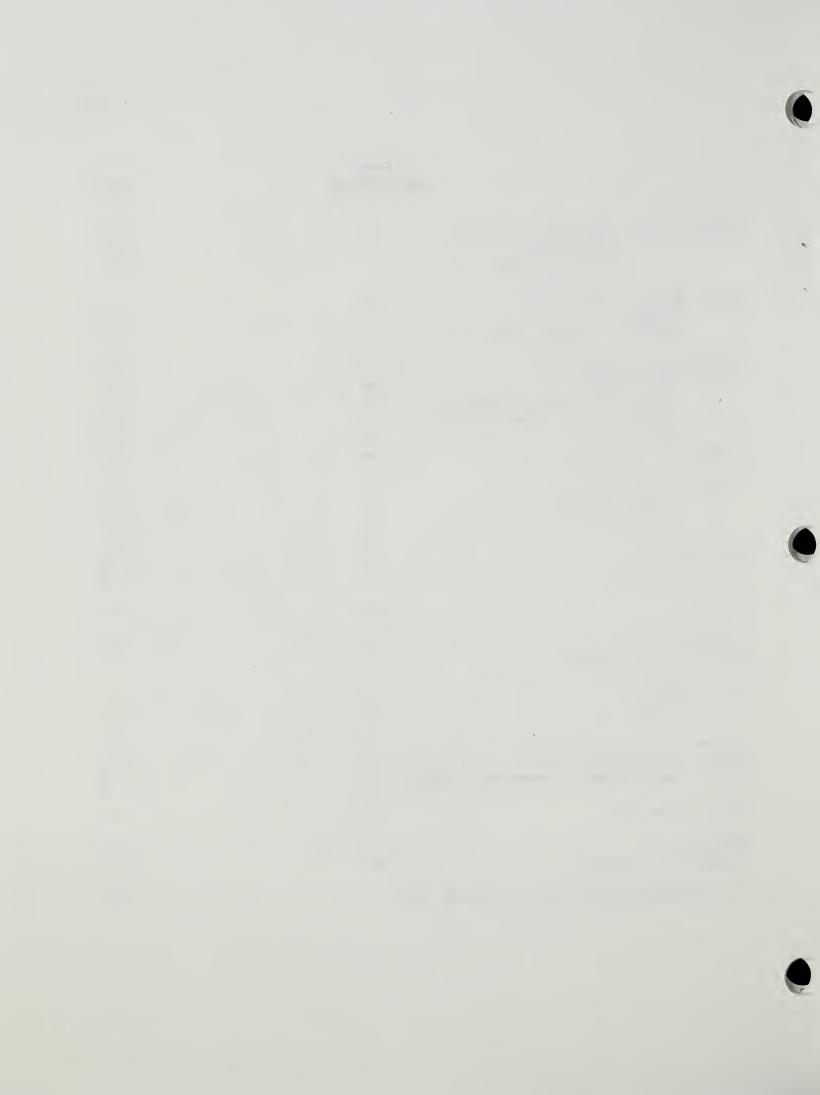
# **GENERAL HARDWARE**

SECTION 7



Item

	Designation	Page
Anchor rods	z	.7.2 .7.2
	ba	.7.13
<pre>" drop wire " ground rod and pipe (indoors) " ground rod and pipe (outdoors</pre>	mzmkajajume	.7.3 .7.4 .7.4.1 .7.14
" split metal	wg sl sg br	.7.8 .7.7 .7.8 .7.15
Numbers, pole	az	.7.9
Rods, anchor ground	x	
Strand, suspension and guy Straps, reinforcement, suspension class	у	.7.11
Thimble-eye nuts		
Washers Wires, cable lashing		
Miscellaneous items removed from the	list	.7.17



The manufacturers listed below have shown compliance with RUS requirements for the following anchor rods. Some manufacturers cannot supply all sizes listed. Check with manufacturer or distributor for availability.

#### x - Anchor Rods

Types	<u>Diameters</u>	Lengths
Single Guy	1/2"	7 ft.
Single and Double Guys	5/8"	7 & 8 ft.
Single and Double Guys	3/4"	<b>8</b> , 9, & 10 ft.
Single and Double Guys	1"	8, 9, & 10 ft.

#### Manufacturers

Eritech, Inc.
(Carolina Galvanizing Corp.)

A. B. Chance Company
Joslyn Manufacturing and Supply Company
Kortick Manufacturing Company
McGraw-Edison
Utilities Service Company

## Catalog Number

# z - Anchors, Guy(1)

		Expanding	and Plate Anc	hors
Holding Power - Lbs.: Min. Required Area, Proj. Rod Diameter, Inches: Rod Length, Feet:	Sq. In.:	6000 90 5/8 7	10,000 120 3/4 8	16,000 200 1 
A. B. Chance	8 Way	-	88135G	1082G
Grip-Tite	8 Way	A322086-G	A322812-G	A322102-G
Joslyn	8 Way Plate	J8115G -	J8135G J7503G	J8200-1G -
McGraw-Edison	4 Way 6 Way Plate	DA1E5 - DA1P7	DA1E7 - DA1P9	DA6E3 DA2P2
South Central	8 Way 4 Way	84115AG -	84135AG -	- 1042001G
			<u>Drive-Type</u>	
Holding Power - Lbs.: Rod Diameter - Inches:		6,000 <u>5/8</u>	10,000 3/4	16,000 1
Foresight Products		MR-3	MR-2	MR-1 MR-SR <sup>(2)</sup>

Notes: (1)Where galvanized anchors are listed, the same anchors ungalvanized (black asphalt coated) are also acceptable.

<sup>(2)</sup>Swamp anchor.

## Catalog Number (1)

#### z - Anchors, Guy

#### Swamp Anchors

	10" dia.	12" dia.	15" dia.
A. B. Chance	10150AS	132AS	152AS
Foresight Products	-	MR-SR <sup>(2)</sup>	-
Joslyn	J2871SG	J2872SG	J2873SG

#### Rock Anchors

	Expanding Type			Split Wedge Type	
Anchor Size - Inches:	1-3/4	1-3/4	1-3/4	-	
Rod Length - Inches:	15	30	53	18	
Rod Diameter - Inches:	3/4	3/4	3/4	_1_	
A. B. Chance	R315	R330	R353	-	
Joslyn	J3436	J3437	J3438	-	
Kortick	K5503	K5504	K5505	K2377	
Utilities Service	CR315	CR330	CR353	<del>-</del>	

Notes: (1)Where galvanized anchors are listed, the same anchors ungalvanized (black asphalt coated) are also acceptable.

<sup>(2)</sup>Drive type swamp anchor (see drive anchor category).

## Manufacturer Catalog Number

## mk - Drop Wire Clamps

Diamond Communications

23-44441
23-88881\*

General Machine Products

7380-B

Reliable

2PRS\*

<sup>\*</sup>Suitable for use in corrosive areas.

#### **Catalog Number**

## aj - Ground Rod and Pipe Clamps

#### Station Installations (Indoors Only)

This conductor:	.162" (#6 AWG) Copper	.102" (#10 AWG) Copper	.081" (#12 AWG) Coppe
Connected to:	Pipe Ground	Pipe Ground	Pipe Ground
	(Copper or Steel)	(Copper or Steel)	(Copper or Steel)
	5/8"-1-1/4" O.D.	5/8"-1-1/4" O.D.	5/8"-1-1/4" O.D.
Electric Motion	EM5507	EM5507	EM5507
	EM5517 <sup>(3)</sup>	EM5517 <sup>(3)</sup>	EM5517 <sup>(3)</sup>
Reliable	13 <sup>(1)</sup>	13 <sup>(1)</sup>	13 <sup>(1)</sup>
		1 <sup>(1)</sup> (2)	1 <sup>(1)</sup> (2)

Notes: (1)Smallest size pipe this clamp can be used on is 3/4".

(2) Can only be used on copper pipe.

(3)Can accommodate one #6 to #14 AWG and one #10 to #14 AWG copper conductor.

#### Catalog Number

#### aj - Ground Rod and Pipe Clamps

#### Station Installations (Outdoors)

#### .081" (#12 AWG), .102" (#10 AWG) and .162" (#6 AWG) Copper

	Ground Rod (Galvani	zed Steel)	Ground Rod (Copper-C	overed Steel)
Connected to:	1/2"	<u>5/8"</u>	<u>1/2"</u>	5/8"
AMP, Inc.	1-83017-1 <sup>(5)</sup> 83017-5 <sup>(4)</sup> 	1-83017-3 <sup>(5)</sup> 83017-2 <sup>(4)</sup>  81405-1	1-81713-1 <sup>(5)</sup> 81713-5 <sup>(4)</sup>  81406-1	1-81713-3 <sup>(6)</sup> 1-81713-2 <sup>(7)</sup> 81713-1 <sup>(4)</sup>
Blackburn <sup>(1)</sup>	G4P	G5P	G4	G5
Burndy	GRC 12 <sup>(1)</sup>		GRC12 <sup>(1)</sup>	<del>.</del>
Connector Castings <sup>(1)</sup>			G-4	G-5
Electric Motion	EM5507 EM5517 <sup>(3)</sup>	EM5507 EM5517 <sup>(3)</sup>	EM5507 EM5517 <sup>(3)</sup>	EM5507 EM5517 <sup>(3)</sup>
Erico <sup>(1)(2)</sup> (Cadweld)	GR1-141G GR1-141A	GR1-161G GR1-161A	GR1-141G GR1-141A	GR1-161G GR1-161A
Eritech, Inc. (Knight Metalcraft)	-	-	CP 12	CP 58
Joslyn			J8491	J8492 <sup>(4)</sup>

#### Notes:

<sup>(1)</sup> Accepted only for use with 0.102" (#10 AWG) and 0.162" (#6 AWG) wire.

<sup>(2)</sup> Includes disposable mold.

<sup>(3)</sup>Can accommodate one #6 to #14 AWG and one #10 to #14 AWG copper conductor.

<sup>(4)</sup> Accepted only for use with .162" (#6 AWG) wire.

<sup>(5)</sup>Accepted only for use with 0.102" (#10 AWG) or 0.081" (#12 AWG) wire.

<sup>(6)</sup>Accepted only for use with 0.102" (#10 AWG) wire.

<sup>(7)</sup>Accepted only for use with 0.081" (#12 AWG) wire.

# **Catalog Number**

# me - Grounding Connectors

.102" (#10 AWG) Copper .162" (# 6 AWG) Copper

	.162" (#6 AWG) Copper	257" (#A AMIC)	.102" (#10 AWG) Copper
Connected to:	.162" (#6 AWG) Copper	.257" (#4 AWG) ACSR	.102" (#10 AWG) Copper
AMP, Inc.	81663-1 <sup>(2)</sup>		-
Anderson Electric	C-6		C-10
Blackburn	6H		-
Burndy	KS17		KS90
Dossert	DS2F		DS09F
Erico <sup>(1)</sup>	PGT-1G1G (Solid-to-Solid) PGT-1H1H (Stranded-to-Stranded) PGT-1H1G (Solid-to-Stranded)	<del></del> 	PGT-1B1A (Stranded-to-Solid) PGT-1A1A (Solid-to-Solid)
Fargo	GC-5006		GC-5008
Joslyn	J3606		J3657F
Kearney	118102	-	118100
Penn-Union	S-6	SW-5	S-10
Reliable	6F		10F

<sup>(1)</sup>Additional Erico CADWELD connectors are available for other combinations of ground wire.

<sup>(2)</sup>For use with two stranded #6 conductors only.

#### Catalog Number

#### me - Grounding Connectors

#### (Compression Type)

.102"(#10 AWG) Copper

to

.109" (#12 BWG) (MPDW)

Burndy

YC8C8-ET

National Tel.

T2-109D

#6 Copper to #6 Copper to #2 & #4 Alum.

Blackburn 6CA 4CA

Burndy KSA4 KSA2

#### Catalog Number

#### me - Grounding Connectors

	.102" (#10 AWG) Copper	#10 AWG Copper
Connected to:	.109" (#12 BWG) Steel (MPDW)	.134" Steel (MPDW)
-1	0	
Blackburn	9TW	-
Burndy	KSL-15	-
Dossert	DSN1F	-
Penn-Union	SW-1	SW-2
Reliable	10FGB	8 <b>F</b> GB

## .102" (#10 AWG) Copper

Connected to galvanized				
steel strand:	_6M_	_10M_	<u>16M</u>	
Aberdeen	AB 438	AB 438	AB 438	
		·—		
Blackburn	1HPS	10HPS	20HPS	
Burndy	-	KSU25	KSU26	
Dossert	DSNS6F	DSNS10F	DSNS13F	
Fargo	GC8010P	GC8020P	GC8020P	
Joslyn	J-3030	J-3030	J-3030	
Penn-Union	SW-6	SW-7	SW-8	
Reliable	438ALC	438ALC	438ALC	

#### .102" (#10 AWG) Copper

#### Connected to:

## Aluminum-Clad Steel Strand

	_6M_	_10M_	<u>16M</u>
Fargo	GA-620C	GA-620C	GA-620C
Penn-Union	PCA-010-H	PCA-010-H	PCA-010-H
Reliable	438ALC	438ALC	438ALC

## For Buried Plant Housings (PE-91)

	#6 AWG_	_#10 AWG
Fargo	GC-164SHP <sup>(1)</sup>	GC-164SHP <sup>(1)</sup>
	GC-5006SHP	GC-5008SHP

<sup>(1)</sup>Connector will accept braid.

7.6 1-95

Manufacturer

#### Catalog Number

## am - Buried Service House Riser Guards

Туре:	Conduit	Closed "U"	Conduit	Conduit	Conduit
Standard Length and Size:	<u>5' x 5/8"</u>	<u>5' × 5/8"</u>	<u>5' x 3/8"</u>	20' x 1" I.D.	<u>5' x 1/2" I.D.</u>
Coil Sales	12-119R	<del></del>	<del>.</del>		-
Phonotronics Inc.	R-070	<del>.</del>	-		R-061
Virginia Plastics	<del></del>	VP-B58*	VP-38-5*	VP-1-EC	

<sup>\*</sup>Staples will be required for mounting conduit. Double headed nails will be required for mounting Closed "U" type moulding. The mounting hardware shall be ordered separately from this manufacturer.

## Catalog Number

# sl - Split Metal Cable Guards

## 10-Foot Straight Section

1" I.D. 3" I.D.

Midland-Ross SD15-10<sup>(1)</sup> SD35-10<sup>(1)</sup>

	5-Foot Straight Section		5-Foot Curve	ed Section
	1" I.D.	3" I.D.	1" I.D.	3" I.D.
Butler	077005	077743	077004	077747
Midland-Ross	SD15-5 <sup>(1)</sup>	SD35-5 <sup>(1)</sup>	-	-

	2-1/2-Foot Straight Section		2-1/2-Foot Cu	Foot Curved Section	
	1" I.D.	3" I.D.	<u>1" I.D.</u>	3" I.D.	
Butler	077009	077745	077011	077749	
Midland-Ross	SD15-2 <sup>(1)</sup>	SD35-2 <sup>(1)</sup>	-	-	

<sup>&</sup>quot;Elbows of varying sizes and angles may be ordered separately.

#### Catalog Number

## sg - Riser Guards (Pole)(1)

Inside diameter, inches:	_1		3
Carlon Products	-	59011	59013
A. B. Chance	6531-1/2	6533	6535
Custom Plastics(2)	CPU1	CPU2	CPU3
Electrical Materials Co.	51-2	52-2	53-2
Fargo	UP-843G*	UP-844G*	UP-845G*
Inwesco	54B01	54B03	54B04
Joslyn	J984	J987	J989
McGraw-Edison	DU7P4	DU7P6	DU7P8
Midland-Ross Corp.	SD15-10(1)(2)	SD25-10(1)(2)	SD35-10 <sup>(1)(2)</sup>
Nordic Fiberglass	U-101 <sup>(2)</sup>	_	_
Reliance Comm/Tec (Reliable)	UP125-8G*	UP225-8G*	UP325-8G*

<sup>\*</sup>Numbers shown identify painted guards. Use of riser guard straps with these guards not needed.

#### wg - Plastic Cable Guards

#### Longitudinally Split

Sizes, inches:	1 x 8	1-1/2 x 8	2 x 8
General Machine Products	7422-1	7422-1-1/2	7422-2

#### Spirally Cut

AMP	*Spirap	(Specify	diameter	and length)
General Machine Products	Type P	11	**	11
Preformed Line	Type PT	'G "	11	11

<sup>\*</sup>Specify black outdoor polyethylene.

<sup>(1)</sup>Order by inside diameter and length.

<sup>(2)</sup>Mounting staples must be purchased separately.

## Catalog Number

#### az - Numbers, Pole

#### Metal

	_1"	1-1/2"	3"	6"
Almetek <sup>(1)</sup>	x	-	х	х
Premax <sup>(1)</sup>	-	x	-	-

#### Plastic

3M Company

No. 5012 (Use 3M decals from 3M-b)

Note: (1)Order by size and description.

ai

#### Manufacturer

## **Catalog Number**

## ai - Ground Rods (without pigtails)

	<u>5/8" x 8'</u>	<u>1/2" x 5'</u>	5/8" x 10' Sectional	Sectional Coupling
Apache	G588*	G125*	GRS5810-R	GRC58
	GR588-R**	GR125-R**		
Blackburn	GR6258*			
	625813MX**		6260S13MX**	60C
A. B. Chance	8578*	8565*	8512*	8611*
Eritech, Inc.	815880*	811350*	835800*	GSC-58*
(Carolina Galvanizing/ Knight Metalcraft)	615883**	611353**	635803**	CR58**
Galvan	GR6258*	GR5005*		
Joslyn	J5328*	J5315*	J23282.10*	J23282-A*
			J9160-13**	J9182**
Kortick	K4658-F*			·
McGraw-Edison	DN5S8*		DN13S110*	DN1K2*
Utilities Service	5307 <del>*</del>			
Wilcor	WA8580G*			

<sup>\*</sup>Galvanized Steel

<sup>\*\*</sup>Copper-Covered Steel

#### Catalog Number

#### y - Suspension and Guy Strand

These manufacturers' strands shown by X's comply with RUS 7 CFR Part 1755.370

# <u>Utilities grade, steel, seven wire</u> (For use as suspension or for guys)

	5/16"(6M)	3/8" (10M)	7/16"(16M)	Class
Bekaert Corporation	х	X	Х	A
Cal-Wire Stranding	X	X	X	A,B,C
CF&I Steel Corporation	X	X	X	A
Davis Walker Corporation	X	X	X	A
Florida Wire and Cable	X	X	X	A,B,C
Indiana Steel & Wire	X	X	X	A,B,C
National Strand Products	X	X	X	A,B,C
Seal Wire	X	X	X	A

# Extra High Strength Grade, steel, seven wire (For use as suspension or for guys)

	1/4" (6M)	5/16" (10M)	7/16" (16M)	Class
Aceros Camesa	Х	х	_	A
Bekaert Corporation	X	X	-	A
Cal-Wire Stranding	X	Х	X	A,B,C
CF&I Steel Corporation	X	X	X	A
Davis Walker Corporation	X	X	-	A
Florida Wire and Cable	X	X	X	A,B,C
Indiana Steel & Wire	X	X	X	A,B,C
National Strand Products	X	X	X	A,B,C
Paulsen Wire Rope Corp.	X	-	-	A
Seal Wire	X	-	-	A
Union Wire Rope	X	Х	X	A

#### **Catalog Number**

## nw - Cable Lashing Wires

		Aluminum-Clad Steel		Type <u>Stainle</u>	430 ss Steel	<u>Aluminum*</u>
Diameter, Inches:	.064	.045	.061	.045	.061	.080
Coil Length, Feet:	<u>600</u>	<u>1200</u>	<u>650</u>	<u>1200</u>	<u>650</u>	<u>375</u>
Aberdeen				45AC	61AC	
Cable Spinning Equipment Company				13A	11A	16A
General Machine Products				7153A		
Greening Donald Co., Ltd.				80608	80363	
Industrial Alloys, Inc.	·			072-430-045-S	072-430- <b>061</b> -S	
Loos & Company				045SA430LP	061SA430LP	
Maryland Specialty Wire, Inc.				958-45M	958- <b>61M</b>	
National Standard				03811	18815	
Senior Industries			-	SI-9603	SI-960 <b>6</b>	

<sup>\*</sup>This type of wire only, is to be used with aluminum-clad steel strand in seacoast areas.

#### Catalog Number

#### c - Bolts, machine

 $5/8^n$   $3/4^n$  

 Chance
  $C88XX^{(1)}$   $C89XX^{(2)}$  

 Joslyn
  $J88XX^{(6)}$   $J89XX^{(7)}$ 

## ao - Bolts, straight, thimble-eye

 $\frac{5/8^{n}}{\text{Chance}} \qquad \frac{3/4^{n}}{\text{C55XX}^{(3)}} \qquad \text{C56XX}^{(4)}$ Joslyn  $\text{J80XX}^{(8)} \qquad \text{J80XX}^{(9)}$ 

## ba - Bolts, angle, thimble-eye

 $\frac{5/8^{\,n}}{\text{Chance}} \qquad \frac{3/4^{\,n}}{\text{C50XX}^{(3)}} \qquad \text{C51XX}^{(5)}$ Joslyn  $\text{J81XX}^{(8)} \qquad \text{J81XX}^{(9)}$ 

#### Notes:

- (1)Order bolts by changing X's in catalog number to length of bolt in inches; accepted for lengths 5", 6", 7", 8", 9", 10", 12", 14", 16", 18", 20", 22", and 24".
- (2)Order bolts by changing X's in catalog number to length of bolt in inches; accepted for lengths 8", 10", 12", 14", 16", 18", 20", 22", 24", and 26".
- (3)Order bolts by changing X's in catalog number to length of bolt in inches; accepted for lengths 10", 12", 14", and 16".
- (4)Order bolts by changing X's in catalog number to length of bolt in inches; accepted for lengths 12" and 14".
- (5)Order bolts by changing X's in catalog number to length of bolt in inches; accepted for lengths 10", 12", and 14".
- (6)Order bolts by changing X's in catalog number to length of bolt in inches; accepted for lengths 5", 6", 7", 8", 9", 10", 11", 12", 13", 14", 15", 16", 18", 20", 22", and 24".
- (7)Order bolts by changing X's in catalog number to length of bolt in inches; accepted for lengths 5", 6", 7", 8", 9", 10", 12", 14", 16", 18", 20", 22", 24", and 26".
- (8)Order bolts by changing X's in catalog number to length of bolt in inches; accepted for lengths 6", 8", 10", and 12".
- (9)Order bolts by changing X's in catalog number to length of bolt in inches; accepted for lengths 8", 10", and 12".

#### Catalog Number

# d - Washers

Туре:	Cu	rved		Flat		Square
Size, in.: Hole sizes, in.:	2-1/2x2-1/2x3/16 11/16	3x3x1/4 11/16	3x3x1/4 13/16	2-1/4x2-1/4x3/16 13/16	2-1/4×2-1/4×3/16 11/16	2-1/4x2-1/4 11/16
Chance	-	6823 1/2	6822 1/2	-		6813
Stanley G. Flagg	-		P143A	-		-
Joslyn	J6822	J113	J6823	J1076	J1075	-
			i.	- Screws, Lag		
	<u>1/2" x 4"</u>					5/8" × 5"
Joslyn	J-8754P					J-8765
			<u>u</u>	- Guy Clamps		
Strand size, inches	: <u>5/16</u>					<u>7/16</u>
	_					
Joslyn	J930					J931
			<u>ab - 1</u>	Thimble-Eye Nuts		
Size, inches:	<u>5/8</u>			<u>3/4</u>		3/8
Chance	6510			-		•
Continental Electric Company	TN-5			TN-6		
Stanley G. Flagg	P128A					P129A
Joslyn	J6510			J6511		-

7.15 1-95 bk;br

## Manufacturer

## Catalog Number

# bk - Guy Lift Plates

<u>F</u>	or 5/8" Bo	lts	For 3/4" Bolts
Chance	-		7897
Joslyn	J7896		J7894
		br - Guy Hooks	
Bolt size (inches):	5/8		3/4
Continental Electric Company	GA-5X		GA-64
Stanley G. Flagg	P135AX		P134AX
Joslyn	J6555		J6556
		ek - Locknuts	
Size:	5/8"		3/4 n
Joslyn	J8583		J8584

## mz - Cable Suspension Clamps

Type:	Straight	WIGTE
Joslyn	J1096	J7902-B

7.16 1-95 nb;px

## Manufacturer

# Catalog Number

#### nb - Suspension Clamp Reinforcement Straps

Joslyn J7905 J7908

#### px - Regular Square Nuts

Size: <u>5/8"</u>

Joslyn J8563 J8564

The following items have been removed from the List of Materials because of their limited use and not because of their inability to meet applicable requirements. Their removal from the list does not relieve borrowers of their responsibility to use materials that meet RUS requirements, ASTM or other national specifications.

i - Bolts, carriage

aa - Oval eye nuts

al - Ground wire staples and nails

at - Guy guards

bl - Steel support brackets

bm - Guy thimble

cb - Conductor bundle bags

df - False deadends

dm - Permanent cable identification markers

dz - Guy wire clips

mf - Drive hooks

mi - Drop wire support

mj - Drop wire clip

mm - Drive rings

mo - Angle screw

mx - Steel pole steps

my - Drop wire hooks

nc - Cable extension arms

nd - Metal pole keys

ne - Bridle rings

ns - Span clamps

pg - Porcelain insulated screweyes

ph - Screw anchors

pk - Moisture blocks

pt - Vinyl tape

pw - Detachable pole steps

py - Lashing wire terminal clamps

st - spacer tape

tc - Cable ties

za - Filler tape

ze - Sealing compound





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